



Safety manual

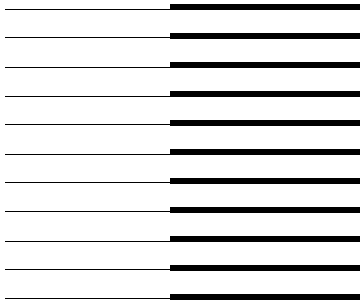




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Made in : The Netherlands



Océ VarioPrint 2090

Safety manual





Océ Technologies B.V.

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Chapter 1

Safety information



Instructions for safe use

Océ designed products have been tested in accordance with the strictest international safety standards. To help assure safe working with these products it is important that you observe the following safety rules:

Maintenance

- Do not remove any screws from fixed panels.
- Do not carry out maintenance activities except for the parts and maintenance materials mentioned in this manual.
- Do not place any liquids on the machine.
- Use maintenance materials or other materials for their original purpose only.
- Keep maintenance materials away from children.
- Do not mix cleaning fluids or other substances.
- To avoid the risk of introducing hazards, all modifications to Océ equipment are strictly reserved to properly qualified and trained service technicians.

Connection

- Do not move the machine yourself, but contact your Customer Service.
- If for some reason you have to move the machine yourself, please make sure that the mains power point has the right fuse capacity. See the Océ VarioPrint 2090 safety data sheet in this appendix for information about maximum current.
- Do not bridge any mechanical or electrical circuit breakers.
- Do not use an extension lead to connect the machine.
- It is recommended to connect only those products which meet the (inter)national product safety and radio frequency interference standards, and to use an attachment cable as specified by Océ.
- This equipment has not been designed for connection to an IT power system.
(An IT power system is a voltage network in which the neutral wire is not connected to earth).
- For equipment connected via a wall socket: locate the machine close to a wall socket that is easily accessible.
- For equipment connected via a fixed connection to the electricity grid: the disconnect service in the fixed connection should be easily accessible.

Mains connection

Never connect the machine to a mains voltage deviating from the value as stated on the power-marking label. The power-marking label can be found at the back of the machine on the right-hand side of the mains entrance, see figure below. If connection to a different mains voltage is required, contact Océ Customer Service.



[1] Location of the power marking lable

Mains connection cable

The machine is connected with a detachable mains connection cable to the mains. Do not use a different mains connection cable as supplied with the machine. When replacement of the mains connection cable is necessary because of damage or defect, contact Customer Service for proper replacement.

Surroundings

- Do not block the ventilation openings of the machine.
- Ensure that the machine is placed on a level, horizontal surface of sufficient strength. See the Océ VarioPrint 2090 safety data sheet in this Safety manual for information about the weight of the equipment.
- Ensure there is sufficient space around the machine. This facilitates maintenance.
- Do not place the machine in rooms which are subject to excessive vibration.
- Do not place the machine in rooms which are too small and insufficiently ventilated. See the Océ VarioPrint 2090 safety data sheet in this Safety manual for information about the recommended minimum room volume and ventilation.

Machine cooling

To guarantee sufficient air flow for cooling purposes, take care that the leftside and full length of the back of the machine are free of obstacles over a distance of at least 30 cm.

Error handling

Caution

- Never open the front doors of the Océ VarioPrint 2090 when the machine is running, because when you access the paper path inside the system, you may touch some moving parts.
- When you remove a paper jam from section A1, you may accidentally touch two rubber wheels that slowly rotate. This situation is not dangerous, but it may surprise you.
- When the system is running, do not touch the copy exit slit when you remove sheets from the output trays.

General

- Always use materials recommended by Océ and developed for this Océ machine. Materials not approved by Océ may result in faults in your machine.
- Do not use the machine when it is emitting unusual sounds. Remove the plug from the power socket or switch off the fixed connection to the electricity grid and contact Customer Service.






Safety data sheets

Introduction

The disclaimer below is valid for all safety data sheets in this manual. For questions about Océ products regarding health, safety and environment, please contact your Océ organisation; you can find the address in the last appendix of this manual.

Disclaimer

The safety data sheets in this manual have been compiled to the best of our knowledge as a compact guide to safe handling of this product. We reserve the right to revise safety data sheets as new information becomes available. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary and to contact the company to make sure that the sheet is the latest one issued. If and in so far as limitation of liability is permitted under the applicable laws, we do not accept liability for any inaccuracy that may occur in this information.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|--|---|
| Océ-(UK), Ltd | | Number E-750-a-UK Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{pA} = 32 dB(A) | In operation L _{pA} = 66 dB(A); impulse L _i = 4 dB(A) | |
| Sound power level | L _{WA} = 48 dB(A) | L _{WA} = 78 dB(A); | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h Ozone concentrations: - Time weighted average 0,001 mg/m ³ (0,0005 ppm) - Peak 0,002 mg/m ³ (0,001 ppm) Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m ³ (0,1 ppm) Odour Perception Limit for ozone 0,04 mg/m ³ (0,02 ppm) | | |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

The content of this safety data sheet is subject to the disclaimer of liability on the introduction page of this chapter.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number E-212-b-UK

Date July 2002

Page 1 of 2

**Océ F11 Toner****1. Product and company identification**

| | |
|-----------------------|--|
| Product name | Océ F11 Toner |
| Packing | Polyethylene bottle, contents 0,80 kg |
| Use of product | Ink powder for copiers/printers |
| Company | Océ (UK) Ltd. |
| Address | Langston Road, Loughton, Essex IG10 3SL |
| Telephone | 0870 600 5544 (contact product safety coordinator) |
| Telefax | 0870 600 1133 |

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.

In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

| | |
|---------------------|--|
| Eyes contact | Rinse with plenty of water. |
| Skin contact | Wash with cold water and soap. |
| Inhalation | Clean nose, mouth, throat. Cough up. Fresh air. |
| Ingestion | Rinse mouth with water. If large quantity swallowed seek medical advice. |

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

| | |
|---|--|
| Extinguishing media | Dry chemical, carbon dioxide, water spray (fog), foam. |
| Special fire fighting protective equipment | N.A. (= Not Applicable) |
| Combustion products | Carbon dioxide, carbon monoxide |

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.

Room ventilation: see operator manual or safety data sheet for the copier/printer.

No special technical measures for storage.

Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.

Industrial hygiene: after skin contact wash with cold water and soap.

ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.

| | | |
|---------|-----------------------------|-----------------------|
| TLV for | * amorphous silicon dioxide | 10 mg/m ³ |
| | * carbon black | 3,5 mg/m ³ |

MATERIAL SAFETY DATA SHEET
(2001/58/EC and ISO 11014-1)

Number E-212-b-UK
Date July 2002
Page 2 of 2



Océ F11 Toner

9. Physical and chemical properties

| | | |
|---|--------------------------------------|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water I nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|----------------------------------|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|--------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |

* These statements are based on toxicological literature on the ingredients of this product and test results of similar products.

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAO/IATA (air).

15. Regulatory information

None


16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-UK |
|---|--|---------------|---------------|
| | | Date | February 2001 |
| | | Page | 1 of 2 |



Océ Master, Part Nos. 2985808, 7001233

1. Product and company identification

| | |
|---------------------|--|
| Product name | Océ Master, Part Nos. 2985808, 7001233 |
| Packing | Cardboard box |

You can find the address of the Océ organization in your country in the last appendix of this manual

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

| | |
|---------------------|------------------------|
| Eyes contact | Not Applicable(=N.A.) |
| Skin contact | N.A. |
| Inhalation | N.A. |
| Ingestion | N.A. |

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

| | |
|--|---|
| Flash point (°C) | N.A. |
| Explosion limits | LEL N.A. UEL N.A. |
| Ignition temperature (°C) | N.A. |
| Extinguishing media | Dry chemical, carbon dioxide, water spray (fog), foam |
| Special fire fighting precautions | N.A. |
| Hazardous products of decomposition | N.A. |

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-193-c-UK
Date February 2001
Page 2 of 2**Océ Master, Part Nos. 2985808, 7001233****9. Physical and chemical properties**

| | | | |
|---|---------------------------|----------|-------------|
| Appearance and odour | dark brown odourless belt | | |
| Boiling point (°C) | N. | A. | |
| Vapour density (air = 1) | N. | A. | |
| Solubility in water | I | nsoluble | |
| Vapour pressure | N. | A. | |
| Other characteristics | | N.A. | |
| Density (g/cm³) | | | approx. 1,4 |
| Melting point (°C) | N. | A. | |
| Evaporation rate (butyl acetate = 1) | | N.A. | |
| % Volatile | | | 0 |
| pH (solution) | | | N.A. |

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous decomposition products | None at intended use |
| Hazardous reaction | None at intended use |

11. Toxicological information

| | |
|---------------------|--|
| Inhalation | N.A. |
| Skin | No adverse health effects are expected. |
| Eyes | N.A. |
| Ingestion | N.A. |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected.

13. Disposal considerations

With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration.

14. Transport information

This product is not classified as a dangerous substance according to the international transport regulations.

15. Regulatory information

This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product.

16. Other information

Use: photoconductor for copiers.
Revision of E-193-b July 1997
Modification: Part No added

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MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL

Date July 1997

Page 2 of 2

**Océ Cleaner O, Part No. 1055452****9. Physical and chemical properties**

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 * | Melting point (°C) | N.A. |
| Solubility in water | M isible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.

IMC: Class 3.3; P.G.:III

RID/ADR : Class 3,31c; P.G.:III

ICAO/IATA-DGR: Class 3; P.G.:III

UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

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EPA ENERGY STAR®

Introduction

Océ-Technologies B.V. has joined the ENERGY STAR® Program of the United States Environmental Protection Agency (EPA). The purpose of the ENERGY STAR® Program is to promote the manufacturing and marketing of energy-efficient equipment, thereby potentially reducing combustion-related pollution.

Using the energy management features outlined below prevents unnecessary power consumption, which helps to prevent air pollution from electricity generating plants and saves money on your utility bills.

As an ENERGY STAR® Partner, Océ-Technologies B.V. has determined that the Océ VarioPrint 2090 meets the ENERGY STAR® guidelines for energy efficiency.

Read the Product Safety Data Sheet in this safety manual for power consumption data.

Read the Océ VarioPrint 2090 Configuration and maintenance manual how to set the energy save modes.

Features

The ENERGY STAR® Criteria involve following features.

Two energy save modes:

- **Low power mode**

The Océ VarioPrint 2090 enters automatically the low power mode 15 minutes after completion of the last job. The Key operator can adjust the low power mode default time (1 - 240 minutes). The recovery time before the next copy/print can be made is 38 seconds.

- **Sleep mode**

The Océ VarioPrint 2090 enters automatically the sleep mode 90 minutes after completion of the last job. The Key operator can adjust the sleep mode default time (1 - 240 minutes).

If the above mentioned default times for the low power mode (15 minutes) or sleep mode (90 minutes) cause inconvenience, the key operator can increase the default times to a maximum of 240 minutes.

It is suggested to determine the appropriate default times for your work pattern by changing the setting in steps of 30 minutes and testing each setting for at least a week.

Only if the sleep mode default time limit of 240 minutes still causes sizable inconvenience, due to your particular work pattern, the Key operator can disable the sleep mode.

- **Automatic duplex**

Using both sides of paper reduces paper costs, national energy consumption and the amount of paper in the waste disposal process. Therefore, the Océ VarioPrint 2090 is default set for automatic duplex copying.

- **Recycled paper**

The use of recycled paper also benefits the environment. The Océ VarioPrint 2090 is designed to use recycled paper. Product literature on recommended types of recycled copy/print paper can be obtained from your local Océ company or Océ Headquarters (Océ-Technologies B.V.) in Venlo, the Netherlands.



ENERGY STAR® is a U.S. registered mark.

Kapitola 2

Bezpečnostní informace



Pokyny pro bezpečné používání

Produkty společnosti Océ byly testovány v souladu s nejpřísnějšími mezinárodními bezpečnostními normami. Při práci s těmito produkty je nutné dodržovat následující bezpečnostní pravidla:

Údržba

- Šrouby, které jsou součástí pevných panelů, neodstraňujte.
- Údržbu provádějte pouze podle postupů popsaných v této příručce.
- Dbejte na to, aby se zařízení nedostalo do kontaktu s tekutinou.
- Materiály pro údržbu a další materiály používejte výhradně k účelu, ke kterému jsou určeny.
- Uchovávejte materiály pro údržbu mimo dosah dětí.
- Nemíchejte čisticí tekutiny ani další látky.
- Veškeré úpravy zařízení Océ smí provádět pouze kvalifikovaný a školený servisní technik, aby se zamezilo úrazům nebo škodám.

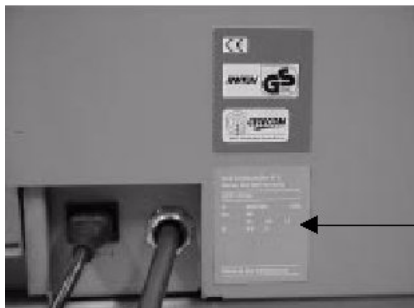
Připojení

- Se zařízením nemanipulujte sami, kontaktujte místní zákaznický servis.
- Pokud z určitých důvodů musíte zařízení přemístit, zkontrolujte, zda mají jističe příslušného elektrického okruhu správnou kapacitu. Informace o maximálním napětí naleznete na bezpečnostním listu zařízení Océ VarioPrint 2090 v tomto dodatku.
- Nespojujte přerušené mechanické ani elektrické obvody.
- Zařízení nepřipojujte prostřednictvím prodlužovacího kabelu.
- K zařízení připojujte pouze takové produkty, které vyhovují místním a mezinárodním normám bezpečnosti provozu a normám pro vysokofrekvenční rušení, a k připojení používejte pouze kabely schválené společností Océ.
- Toto zařízení není určeno pro připojení do napájecího systému IT. (Napájecí systém IT je síť s neuzemněným nulovým vodičem.)
- Zařízení zapojené do elektrické zásuvky: Použijte snadno dostupnou zásuvku a zařízení umístěte v její blízkosti.
- Zařízení pevně připojené do elektrické sítě: Vypínač připojení by měl být snadno přístupný.

Připojení napájení

Zařízení nikdy nepřipojujte do sítě, jejíž napájení se neshoduje s parametry na štítku zařízení. Štítek najdete na zadní straně zařízení

napravo od přívodu napájení, viz obrázek. Pokud je nutné zařízení připojit k síti s odlišným napětím, kontaktujte středisko podpory zákazníků Océ.



[2] Umístění štítku

Napájecí kabel

Zařízení je do sítě připojeno pomocí odpojitelného kabelu. Pro připojení zařízení do elektrické sítě použijte pouze kabel dodaný se zařízením. V případě nutnosti výměny tohoto napájecího kabelu kvůli závadě nebo poškození kontaktujte středisko podpory zákazníků.

Okolí

- Nezakrývejte větrací otvory zařízení.
- Zařízení umístěte na rovném, vodorovném a dostatečně pevném povrchu. Informace o hmotnosti zařízení najdete v bezpečnostním listu zařízení Océ VarioPrint 2090 v této příručce.
- Kolem zařízení musí být dostatek místa. Usnadní se tím údržba.
- Zařízení neumísť ujte do místností, které jsou vystaveny nadměrným vibracím.
- Zařízení neumísť ujte do příliš malých a nedostatečně větraných místností. Informace o doporučeném minimálním prostoru a ventilaci najdete v bezpečnostním listu zařízení Océ VarioPrint 2090 v této příručce.

Chlazení stroje

Chcete-li zajistit chlazení dostatečným prouděním vzduchu, postarejte se, aby ve vzdálenosti 30 cm od levé a zadní strany zařízení nebyly žádné překážky.

Řešení problémů

Varování

- Nikdy neotevírejte přední dvířka zařízení Océ VarioPrint 2090 za provozu, protože byste se mohli dotknout pohyblivých částí.
- Při odstranění uvíznutého papíru z oblasti A1 se můžete náhodně dotknout dvou gumových pomalu se otáčejících koleček. Nejedná se o nic nebezpečného, spíš překvapivého.
- Za provozu zařízení se nedotýkejte při odebírání listů z výstupních zásobníků otvoru pro výstup kopií.

Obecné

- Vždy používejte materiály, které jsou doporučené společností Océ a vyrobené pro toto zařízení Océ. Materiály, které nebyly schváleny společností Océ, mohou zařízení poškodit.
- Zařízení nepoužívejte, pokud vydává neobvyklé zvuky. Odpojte napájecí kabel ze zásuvky nebo vypněte pevné připojení k elektrické síti a spojte se se servisními pracovníky.

Bezpečnostní listy






Úvod

Níže uvedené oznámení o zárukách platí pro všechny bezpečnostní listy v této příručce. Dotazy týkající se zdraví, bezpečnosti a prostředí při práci s výrobky Océ adresujte organizaci Océ; adresu naleznete v posledním dodatku této příručky.

Zřeknutí se záruk

Bezpečnostní listy obsažené v této příručce byly vytvořeny podle našeho nejlepšího vědomí jako ucelený návod pro bezpečné používání tohoto produktu. Vyhradzujeme si právo upravovat tyto listy v souladu s nejnovějšími informacemi. Uživatel nese zodpovědnost za to, že při přijímání případných bezpečnostních opatření posoudí vhodnost těchto informací a že bude kontaktovat společnost, aby se ujistil, že má k dispozici nejnovější verzi listu. Je-li omezení odpovědnosti povoleno příslušnými zákony, zříkáme se tímto odpovědnosti za jakékoliv nepřesnosti, které se mohou v těchto informacích vyskytnout.

Bezpečnostní datový list zařízení Océ VarioPrint 2090

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|---|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | 722 kg | | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5/-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby $L_{pA} = 32$ dB(A) | In operation $L_{pA} = 66$ dB(A); impulse $L_1 = 4$ dB(A) | |
| Sound power level | $L_{WA} = 48$ dB(A) | $L_{WA} = 78$ dB(A); | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h Ozone concentrations: - Time weighted average 0,001 mg/m ³ (0,0005 ppm) - Peak 0,002 mg/m ³ (0,001 ppm) Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m ³ (0,1 ppm) Odour Perception Limit for ozone 0,04 mg/m ³ (0,02 ppm) | | |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Na obsah tohoto listu se vztahuje omezení odpovědnosti (viz 'Bezpečnostní listy' na straně 25) této kapitoly.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number E-212-b-NL
Date July 2002
Page 1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water I nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Na obsah tohoto listu se vztahuje omezení odpovědnosti (viz 'Bezpečnostní listy' na straně 25) této kapitoly.

| | | | |
|---|--|---------------------------|--|
| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number E-193-c-NL |  |
| | | Date February 2001 | |
| | | Page 2 of 2 | |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Vapour density (air = 1) | N. | A. | Melting point (°C) N. |
| Solubility in water | I | nsoluble | Evaporation rate (butyl acetate = 1) N.A. |
| Vapour pressure | N. | A. | % Volatile 0 |
| Other characteristics | N.A. | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

Na obsah tohoto listu se vztahuje omezení odpovědnosti (viz 'Bezpečnostní listy' na straně 25) této kapitoly.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F, R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
Normal work hygiene practices needed.
Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|---------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol %* | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400* |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05* | Melting point (°C) | N.A. |
| Solubility in water | M isobile | Evaporation rate (butyl acetate = 1) | 2,8* |
| Vapour pressure | 43 mbar at 20 °C* | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol; Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Na obsah tohoto listu se vztahuje omezení odpovědnosti (viz 'Bezpečnostní listy' na straně 25) této kapitoly.

PROGRAM EPA ENERGY STAR®

Úvod

Společnost Océ-Technologies B.V. se zapojila do programu ENERGY STAR® agentury EPA (United States Environmental Protection Agency). Cílem programu ENERGY STAR® je podpora výroby a prodeje úsporných zařízení, a tedy potenciální omezení znečištění životního prostředí.

Použitím níže uvedených funkcí řízení spotřeby se předchází zbytečné spotřebě energie, což napomáhá ochraně ovzduší před exhalacemi z elektráren a snižuje nutné náklady na energii.

Jako partner programu ENERGY STAR® prohlašuje společnost Océ-Technologies B.V., že zařízení Océ VarioPrint 2090 vyhovuje pokynům programu ENERGY STAR® z hlediska úspory energie.

Údaje o spotřebě energie najdete v bezpečnostním listu produktu v této příručce.

Postup nastavení úsporných režimů najdete v Příručce pro konfiguraci a údržbu zařízení Océ VarioPrint 2090.

Funkce

Kritéria programu ENERGY STAR® zahrnují následující funkce.

Dva úsporné režimy:

■ **Režim snížené spotřeby**

Zařízení Océ VarioPrint 2090 automaticky přejde do režimu snížené spotřeby 15 minut po dokončení poslední úlohy. Školená obsluha může nastavit výchozí interval režimu snížené spotřeby (1 - 240 minut). Doba obnovení před dalším kopírováním či tiskem je 38 sekund.

■ **Režim spánku**

Zařízení Océ VarioPrint 2090 automaticky přejde do režimu spánku 90 minut po dokončení poslední úlohy. Školená obsluha může nastavit výchozí interval režimu spánku (1 - 240 minut).

Jsou-li výše uvedené výchozí časy pro režim snížené spotřeby (15 minut) nebo režim spánku (90 minut) problematické, může školená obsluha zvýšit výchozí časy maximálně na 240 minut.

Optimální nastavení výchozích časových intervalů pro vaše pracoviště doporučujeme provést postupnými změnami hodnot po 30 minutách a ověřováním každého nastavení po dobu nejméně jednoho týdne.

Pokud by ani časový interval režimu spánku 240 minut nebyl pro vaše podmínky dostačující, může školená obsluha režim spánku vypnout.

■ **Automaticky oboustranné kopírování**

Použití obou stran papíru snižuje náklady na papír, spotřebu energie a množství papírového odpadu, který je nutné zpracovat. Z tohoto důvodu je zařízení Océ VarioPrint 2090 pro automatické oboustranné kopírování nastaveno standardně.

■ **Recyklovaný papír**

Opatřením šetřícím životní prostředí je také použití recyklovaného papíru. Zařízení Océ VarioPrint 2090 je určeno k použití recyklovaného papíru. Informace týkající se doporučených druhů recyklovaného papíru (pro tisk i kopírování) pro zařízení lze získat u místního zástupce společnosti Océ nebo na hlavním sídle společnosti Océ (Océ-Technologies B.V.) ve Venlo v Holandsku.



ENERGY STAR® je registrovaná známka v USA.

Kapitel 3

Sicherheitshinweise



Sicherheitsanweisungen

Alle Produkte von Océ werden nach strengsten internationalen Sicherheitsnormen getestet. Zum sicheren Umgang mit diesen Produkten befolgen Sie die nachstehenden Sicherheitsvorschriften:

Wartung

- Entfernen Sie keine Schrauben aus befestigten Abdeckungen.
- Führen Sie neben den in diesem Handbuch erwähnten Wartungsarbeiten an Teilen und Material keinerlei Wartungstätigkeiten durch.
- Stellen Sie keine Flüssigkeiten auf dem Gerät ab.
- Verwenden Sie das Wartungsmaterial oder andere Materialien nur für den dafür bestimmten Zweck.
- Bewahren Sie Wartungsmaterial außerhalb der Reichweite von Kindern auf.
- Mischen Sie Reinigungsmittel nicht mit anderen Substanzen.
- Um schwerwiegende Schäden zu vermeiden, dürfen Änderungen an den Océ-Geräten nur von qualifizierten Océ-Kundendiensttechnikern ausgeführt werden.

Anschlüsse

- Ändern Sie den Standort des Systems nicht selbst, sondern wenden Sie sich an den Océ-Kundendienst.
- Wenn Sie aus irgendeinem Grund den Standort des Systems selbst ändern müssen, stellen Sie sicher, dass der Netzanschluss die richtige Stromstärke

aufweist. Im Sicherheitsdatenblatt des Océ VarioPrint 2090 in diesem Anhang finden Sie Informationen zur maximalen Stromstärke.

- Überbrücken Sie keine mechanischen oder elektrischen Schalter.
- Verwenden Sie kein Verlängerungskabel für den Anschluss des Systems.
- Sie sollten nur Geräte anschließen, die den (inter)nationalen Standards für Produktsicherheit und Funkstörungen entsprechen. Verwenden Sie darüber hinaus nur ein von Océ angegebenes Verbindungskabel.
- Dieses System wurde nicht für den Anschluss an ein IT-Stromnetz entwickelt.

(Ein IT-Stromnetz ist ein Netzwerk, in dem der Neutralleiter nicht geerdet ist.)

- Über eine Steckdose angeschlossene Geräte: Platzieren Sie das System nahe einer leicht zugänglichen Steckdose.
- Über eine Festleitung an das Stromnetz angeschlossene Geräte: Der Schalter zum Unterbrechen der Festleitung zum Netz muss leicht zugänglich sein.

Netzanschluss

Schließen Sie das Gerät nur an die Netzspannung an, die auf dem Etikett für die Anschlusswerte angegeben ist. Das Etikett für die Anschlusswerte befindet sich auf der Rückseite des Geräts nahe beim Hauptanschluss (siehe Abbildung unten). Wenn der Anschluss an eine andere Netzspannung erforderlich ist, wenden Sie sich an den Océ-Kundendienst.



[3] Position des Etiketts für die Anschlusswerte

Netzanschlusskabel

Das Gerät ist über ein abnehmbares Netzkabel an die Stromversorgung angeschlossen. Verwenden Sie nur das mit dem Gerät gelieferte Netzkabel. Wenn das Netzkabel beschädigt oder fehlerhaft ist und daher ersetzt werden muss, wenden Sie sich an den Océ-Kundendienst, um das richtige Ersatzkabel zu erhalten.

Umgebungsbedingungen

- Blockieren Sie nicht die Lüftungsöffnungen des Geräts.
- Stellen Sie sicher, dass das Gerät auf einer ebenen, ausreichend stabilen Fläche steht. Im Sicherheitsdatenblatt des Océ VarioPrint 2090 in diesem Sicherheitshandbuch finden Sie Informationen zum Gewicht des Systems.
- Stellen Sie sicher, dass um das Gerät ausreichend Platz vorhanden ist. Auf diese Weise kann die Wartung einfacher durchgeführt werden.
- Platzieren Sie das Gerät nicht in Räumen, die starken Vibrationen ausgesetzt sind.
- Platzieren Sie das Gerät nicht in Räumen, die zu klein und nicht ausreichend belüftet sind. Im Sicherheitsdatenblatt des Océ VarioPrint 2090 in diesem Sicherheitshandbuch finden Sie Informationen zum empfohlenen minimalen Raummaß und zur Belüftung.

Gerätekühlung

Um einen ausreichenden Luftstrom zur Kühlung sicherzustellen, achten Sie darauf, dass auf der linken Seite sowie über die gesamte Länge der Rückseite des Geräts mindestens 30 cm Abstand vorhanden sind.

Fehlerhandhabung

Vorsicht

- Öffnen Sie niemals die Fronttür des Océ VarioPrint 2090, wenn das Gerät in Betrieb ist, da Sie versehentlich bewegliche Teile berühren können, wenn Sie auf die Papierführung im System zugreifen.
- Wenn Sie gestautes Papier aus dem Bereich A1 entfernen, können Sie versehentlich zwei Gummirädchen berühren, die sich langsam drehen. Dies ist nicht gefährlich, kann Sie aber möglicherweise überraschen.
- Wenn das System in Betrieb ist, berühren Sie nicht den Ausgabeschlitz für die Kopien, wenn Sie Blätter aus den Ausgabefächern entfernen.

Allgemeines

- Verwenden Sie nur von Océ empfohlenes und für Océ-Systeme entwickeltes Material. Andere Materialien als von Océ empfohlene können zu Betriebsstörungen führen.
- Verwenden Sie das Gerät nicht, wenn es ungewöhnliche Geräusche produziert. Ziehen Sie den Stecker aus der Steckdose oder schalten Sie die Festleitung zum Netz ab, und wenden Sie sich an den Océ-Kundendienst.

Sicherheitsdatenblätter






Einführung

Die nachstehende Haftungsausschlusserklärung gilt für alle Sicherheitsdatenblätter in diesem Handbuch. Wenn Sie Fragen zu Produkten von Océ im Hinblick auf Gesundheit, Sicherheit und Umweltschutz haben, wenden Sie sich an Ihre Océ-Niederlassung. Die entsprechende Adresse finden Sie im letzten Anhang in diesem Handbuch.

Haftungsausschluss

Die Sicherheitsdatenblätter in diesem Handbuch wurden von Océ mit größtmöglicher Sorgfalt als Kurzanleitung für den sicheren Umgang mit dem betreffenden Produkt verfasst. Océ behält sich das Recht vor, Angaben in den Sicherheitsdatenblättern zu ändern, wenn neue Informationen verfügbar werden. Es liegt in der Verantwortung des Benutzers, zu entscheiden, ob diese Informationen zur Übernahme für möglicherweise notwendige Sicherheitsvorkehrungen geeignet sind, und durch Anfragen bei Océ sicherzustellen, dass es sich bei den Blättern um die jeweils neueste Ausgabe handelt. In dem Maße, in dem das geltende Recht eine Beschränkung der Haftung erlaubt, schließt Océ jede Haftung für etwaige Fehler in diesen Informationen aus.

Sicherheitsdatenblatt für Océ VarioPrint 2090

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|---|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby $L_{pA} = 32 \text{ dB(A)}$ | | In operation $L_{pA} = 66 \text{ dB(A)}$; impulse $L_I = 4 \text{ dB(A)}$ |
| Sound power level | $L_{WA} = 48 \text{ dB(A)}$ | | $L_{WA} = 78 \text{ dB(A)}$; |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | | |
| | | 0,2 mg/m ³ | (0,1 ppm) |
| | Odour Perception Limit for ozone | | (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Für den Inhalt dieses Sicherheitsdatenblatts gilt die Haftungsausschlussklärung (siehe 'Sicherheitsdatenblätter' auf Seite 39) dieses Kapitels.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number E-212-b-NL
Date July 2002
Page 1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Für den Inhalt dieses Sicherheitsdatenblatts gilt die Haftungsausschlussklärung (siehe 'Sicherheitsdatenblätter' auf Seite 39) dieses Kapitels.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|--|----------|---|
| | | Date | February 2001 |
| | | Page | 2 of 2 |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Vapour density (air = 1) | N. | A. | Melting point (°C) N. |
| Solubility in water | I | nsoluble | Evaporation rate (butyl acetate = 1) N.A. |
| Vapour pressure | N. | A. | % Volatile 0 |
| Other characteristics | N.A. | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

Für den Inhalt dieses Sicherheitsdatenblatts gilt die Haftungsausschlussklärung (siehe 'Sicherheitsdatenblätter' auf Seite 39) dieses Kapitels.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F, R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 | Melting point (°C) | N.A. |
| Solubility in water | M iscible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Für den Inhalt dieses Sicherheitsdatenblatts gilt die Haftungsausschlussklärung (siehe 'Sicherheitsdatenblätter' auf Seite 39) dieses Kapitels.

EPA ENERGY STAR®

Einführung

Océ-Technologies B.V. nimmt am ENERGY STAR®-Programm der amerikanischen Umweltschutzorganisation EPA (Environmental Protection Agency) teil. Das Ziel des ENERGY STAR®-Programms ist die Förderung von Herstellung und Vertrieb energiesparender Geräte, um dadurch Möglichkeiten zu schaffen, Umweltverschmutzung durch Emissionen zu reduzieren. Die Verwendung der nachfolgend aufgeführten Energiesparfunktionen verhindert den unnötigen Verbrauch von Energie und trägt dazu bei, die Verschmutzung der Luft durch Stromerzeugungsanlagen zu reduzieren und Kosten für den Energieverbrauch einzusparen.

Als Partner von ENERGY STAR® hat Océ-Technologies B.V. sich verpflichtet, den Océ VarioPrint 2090 entsprechend den Energiesparrichtlinien von ENERGY STAR® zu konzipieren.

Lesen Sie das Datenblatt zur Produktsicherheit in diesem Sicherheitshandbuch, um Daten zum Energieverbrauch zu erhalten. Lesen Sie das Konfigurations- und Wartungshandbuch für den Océ VarioPrint 2090, um Informationen dazu zu erhalten, wie die Energiesparmodi eingestellt werden.

Funktionen

Zu den ENERGY STAR®-Kriterien gehören folgende Punkte:

Zwei Energiesparmodi:

■ **Energiesparmodus**

15 Minuten nach Fertigstellung des letzten Auftrags wechselt der Océ VarioPrint 2090 automatisch in den Energiesparmodus. Die Standardzeit (1- 240 Minuten) für den Energiesparmodus kann vom Key Operator geändert werden. Die Wiederanlaufzeit vor dem nächsten Kopier-/Druckvorgang kann in 38 Sekunden erfolgen.

■ **Ruhemodus**

90 Minuten nach Fertigstellung des letzten Auftrags wechselt der Océ VarioPrint 2090 automatisch in den Ruhemodus. Die Standardzeit (1- 240 Minuten) für den Ruhemodus kann vom Key Operator geändert werden. Wenn Sie der zuvor erwähnte Standardwert für den Energiesparmodus (15 Minuten) oder Ruhemodus (90 Minuten) die Produktion beeinträchtigt, kann der Key Operator den Standardwert auf maximal 240 Minuten erhöhen.

Ermitteln Sie die für Ihre Arbeitsabläufe optimalen Standardzeiten. Ändern Sie dazu die Einstellungen in Schritten von 30 Minuten, und testen Sie jede neue Einstellung mindestens eine Woche lang.

Nur wenn selbst die obere Grenze von 240 Minuten für den Ruhemodus Ihre Arbeitsabläufe massiv beeinträchtigt, sollte der Key Operator den Ruhemodus deaktivieren.

■ **Automatischer Duplex-Modus**

Die beidseitige Verwendung von Papier reduziert die Ausgaben für Papier, den allgemeinen Energieverbrauch und die für die Entsorgung anfallende Papiermenge. Aus diesem Grund ist der Océ VarioPrint 2090 standardmäßig auf automatische Duplex-Ausgaben (2-seitiges Kopieren) eingestellt.

■ **Recycling-Papier**

Auch die Verwendung von Recycling-Papier schont die Umwelt. Der Océ VarioPrint 2090 ist für die Verwendung von Recycling-Papier ausgelegt. Informationen darüber, welche Arten von Recycling-Papier mit diesem Kopierer/Drucker verwendet werden können, erhalten Sie von Ihrem Océ-Händler, über die Océ-Hauptverwaltung (Océ-Technologies B.V.) in Venlo, Niederlande oder bei deutschen Océ-Niederlassungen.



ENERGY STAR® ist eine in den USA eingetragene Marke.

Kapitel 4

Sikkerhedsoplysninger



Vejledning i sikker brug

Produkter, som er udviklet af Océ, er blevet testet i henhold til de strengeste internationale sikkerhedsstandarder. Det er vigtigt at overholde følgende sikkerhedsforskrifter for at sikre, at disse produkter kan anvendes uden risiko:

Vedligeholdelse

- Undlad at fjerne skruer fra faste paneler.
- Foretag ikke vedligeholdelsesopgaver, ud over de dele og vedligeholdelsesmaterialer, der er beskrevet i denne vejledning.
- Undgå at placere væske på maskinen.
- Anvend kun vedligeholdelsesmaterialer eller andre materialer til deres oprindelige formål.
- Opbevar vedligeholdelsesmaterialer utilgængeligt for børn.
- Undgå at blande rengøringsmidler og andre stoffer.
- Hvis De vil undgå risikoen for at forvolde skade, bør De overlade alle ændringer af Océ-udstyr til uddannede serviceteknikere.

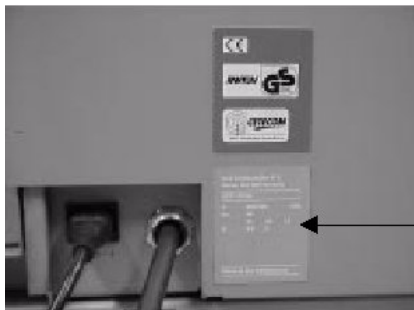
Tilslutning

- Flyt ikke selv maskinen, men kontakt Kundeservice.
- Hvis De af en eller anden grund bliver nødt til at flytte maskinen selv, skal De sørge for, at lysnetkablet tilsluttes en stikkontakt med den korrekte strømstyrke. Se sikkerhedsdatabladene til Océ VarioPrint 2090 i dette tillæg, hvis De ønsker flere oplysninger om maksimal strømstyrke.
- Undgå at parallelforbinde mekaniske eller elektriske afbrydere.
- Undgå at anvende en forlængerledning til tilslutning af maskinen.
- Det anbefales kun at tilslutte de produkter, der overholder de (inter)ationale standarder om produktsikkerhed og højfrekvensinterferens, og at bruge et tilslutningskabel som angivet af Océ.
- Dette udstyr er ikke konstrueret til tilslutning til et IT-strømsystem. (Et IT-strømsystem er et spændingsnetværk, hvor det neutrale kabel ikke er jordforbundet).
- Til udstyr, der tilsluttes en vægkontakt: Tilslut maskinen til en vægkontakt, der er let tilgængelig.
- Til udstyr, der tilsluttes elnettet via en fast forbindelse: Der skal være let adgang til afbryderkontakten på den faste forbindelse.

Tilslutning til lysnettet

Tilslut aldrig maskinen til en strømspænding, der ikke er angivet på mærkaten med spændingsspecifikationer. Mærkaten med spændingsspecifikationerne

findes bag på maskinen til højre for hovedåbningen. Se figuren nedenfor. Hvis De er nødt til at benytte en anden spænding, skal De kontakte Océ Kundeservice.



[4] Placering af mærkaten med spændingsspecifikationer

Lysnetkabel

Maskinen tilsluttes lysnettet ved hjælp af et aftageligt lysnetkabel. Brug kun det lysnetkabel, der følger med maskinen. Når lysnetkablet skal udskiftes på grund af beskadigelse eller defekter, skal De kontakte Kundeservice for at få et korrekt kabel.

Omgivelser

- Undgå at blokere maskinens ventilationsåbninger.
- Sørg for, at maskinen er anbragt på en plan, vandret flade, der kan bære maskinens vægt. Se sikkerhedsdatabladet til Océ VarioPrint 2090 i denne vejledning, hvis De ønsker flere oplysninger om udstyrets vægt.
- Sørg for, at der er tilstrækkelig plads omkring maskinen. Det gør vedligeholdelsen nemmere.
- Undgå at placere maskinen i lokaler, der er udsat for kraftige rystelser.
- Undgå at placere maskinen i små og utilstrækkeligt ventilerede lokaler. Se sikkerhedsdatabladet til Océ VarioPrint 2090 i denne vejledning, hvis De ønsker yderligere oplysninger om anbefalet minimumrumstørrelse og -ventilation.

Afkøling af maskinen

Sørg for, at der er en afstand på mindst 30 cm fra maskinens venstre side samt hele maskinens bagside til eventuelle objekter. Dette sikrer, at der er tilstrækkelig luftstrømning til afkøling af maskinen.

Problemløsning

Advarsel!

- Åbn aldrig frontdørene til Océ VarioPrint 2090, når maskinen kører, da De kan komme til at røre visse dele, der bevæger sig, når De får adgang til systemets papirgang.
- Når De fjerner fastklemt papir fra sektion A1, kan De ved en fejl komme til at røre ved to gummihjul, der langsomt drejer rundt. Denne situation er ikke farlig, men kan virke overraskende.
- Undgå at røre ved kopiudgangsåbningen, når De fjerner ark fra outputbakkerne, hvis systemet kører.

Generelt

- Brug altid materialer, der er anbefalet af Océ, og som er udviklet til denne Océ-maskine. Materialer, der ikke er godkendt af Océ, kan beskadige maskinen.
- Undgå at bruge maskinen, hvis den udsender usædvanlige lyde. Tag stikket ud af stikkontakten, eller deaktiver den faste forbindelse til lysnettet, og kontakt Kundeservice.






Sikkerhedsdatablade

Introducción

Følgende ansvarsbegrænsning er gældende for alle sikkerhedsdatablade i denne vejledning. Hvis De har spørgsmål om Océ-produkter, der vedrører sundhed, sikkerhed og miljø, kan De kontakte Deres lokale Océ-afdeling. Adressen findes i det sidste tillæg til denne vejledning.

Ansvarsbegrænsning

Sikkerhedsdatabladene i denne vejledning er udarbejdet på baggrund af vort kendskab til produktet og bør bruges som en kortfattet vejledning i sikker håndtering af udstyret. Vi forbeholder os retten til at ændre disse sikkerhedsdatablade, når vi får kendskab til nye oplysninger. Det er brugerens ansvar at vurdere brugbarheden af disse oplysninger i bestræbelsen på at opnå sikker brug af udstyret og at kontakte firmaet for at sikre, at dette er den seneste version af sikkerhedsdatabladet. I det omfang ansvarsbegrænsningerne er tilladt i henhold til gældende lov, påtager vi os ikke ansvaret for eventuelle uøjagtigheder i disse oplysninger.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|---|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5/-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{pA} = 32 dB(A) | | In operation L _{pA} = 66 dB(A); irmpulse L _i = 4 dB(A) |
| Sound power level | L _{WA} = 48 dB(A) | | L _{WA} = 78 dB(A); |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | | |
| | | 0,2 mg/m ³ | (0,1 ppm) |
| | Odour Perception Limit for ozone | | |
| | | 0,04 mg/m ³ | (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Indholdet af dette sikkerhedsdatablad er underlagt ansvarsbegrænsningen (se 'Sikkerhedsdatablade' på side 55) i dette kapitel.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2

**Océ F11 Toner****1. Product and company identification**

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.

In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Indholdet af dette sikkerhedsdatablad er underlagt ansvarsbegrænsningen (se 'Sikkerhedsdatablade' på side 55) i dette kapitel.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|--|--------------------------------------|---------------|
| | | Date | February 2001 |
| | | Page | 2 of 2 |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour | | dark brown odourless belt | |
| Bolling point (°C) | N. A. | Density (g/cm ³) | approx. 1,4 |
| Vapour density (air = 1) | N. A. | Melting point (°C) | N. A. |
| Solubility in water | I nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure | N. A. | % Volatile | 0 |
| Other characteristics | N.A. | pH (solution) | N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

Indholdet af dette sikkerhedsdatablad er underlagt ansvarsbegrænsningen (se 'Sikkerhedsdatablade' på side 55) i dette kapitel.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
 Date July 1997
 Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 | Melting point (°C) | N.A. |
| Solubility in water | M isible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Indholdet af dette sikkerhedsdatablad er underlagt ansvarsbegrænsningen (se 'Sikkerhedsdatablade' på side 55) i dette kapitel.

EPA ENERGY STAR®

Indledning

Océ-Technologies B.V. deltager i ENERGY STAR®-programmet oprettet af United States Environmental Protection Agency (EPA). Formålet med ENERGY STAR®-programmet er at forbedre fremstillingen og markedsføringen af energibesparende udstyr, og derved potentielt reducere den nedbrydningsrelaterede forurening.

Ved brug af de strømstyringsfunktioner, der er angivet herunder, forhindres unødigt strømforbrug, hvilket kan forhindre luftforurening, der forårsages af elektrisk udstyr, og samtidig reduceres elregningen.

Som ENERGY STAR®-partner har Océ-Technologies B.V. afgjort, at Océ VarioPrint 2090 opfylder ENERGY STAR®-retningslinjerne vedrørende energibesparelse.

Læs produktets sikkerhedsdatablad i denne sikkerhedsvejledning, hvor De kan finde data om strømforbrug.

Læs Konfigurations- og vedligeholdelsesvejledning til Océ VarioPrint 2090 for at få oplysninger om, hvordan energisparetilstandene indstilles.

Funktioner

ENERGY STAR®-kriterierne omfatter følgende funktioner.

To energisparetilstande:

■ **Lav strømtilstand**

Océ VarioPrint 2090 skifter automatisk til lav strømtilstand 15 minutter efter, at det sidste job er fuldført. Nøgleoperatøren kan justere standardtiden for lav strømtilstand (1-240 minutter). Genopstartstiden, før den næste kopi/udskrift kan laves, er 38 sekunder.

■ **Dvaletilstand**

Océ VarioPrint 2090 skifter automatisk til dvaletilstand 90 minutter efter, at det sidste job er fuldført. Nøgleoperatøren kan justere standardtiden for dvaletilstand (1-240 minutter).

Hvis de ovennævnte standardtidsindstillinger for lav strømtilstand (15 minutter) eller dvaletilstand (90 minutter) er ubejlelige, kan nøgleoperatøren øge dem til maksimum 240 minutter.

Det anbefales at finde frem til en passende standardtidsindstilling for Deres arbejdsmønster ved at ændre indstillingerne i intervaller på 30 minutter og afprøve hver indstilling i mindst en uge.

Hvis grænsen på 240 minutter i forbindelse med dvaletilstanden stadig forårsager væsentlige hindringer for Deres arbejdsmønster, kan nøgleoperatøren deaktivere dvalefunktionen.

■ **Automatisk dupleks**

Brug af begge sider af papiret reducerer papiromkostningerne, landets energiforbrug og mængden af papir, der skal bortskaffes. Derfor er Océ VarioPrint 2090 som standard indstillet til automatisk duplekskopiering.

■ **Genbrugspapir**

Brug af genbrugspapir gavner ligeledes miljøet. Océ VarioPrint 2090 er udviklet til at anvende genbrugspapir. Produktlitteratur om, hvilke typer genbrugspapir der anbefales til kopiering/udskrivning, kan fås hos Deres lokale Océ-afdeling eller fra Océ' s hovedkontor (Océ-Technologies B.V.) i Venlo, Holland.



ENERGY STAR® er et varemærke registreret i USA.

Capítulo 5

Información de seguridad



Instrucciones de seguridad

Los productos diseñados por Océ se han sometido a un proceso de verificación acorde con las normas de seguridad internacionales más estrictas. Para garantizar la seguridad en el manejo de estos productos, es importante cumplir las normas de seguridad que se indican a continuación:

Mantenimiento

- No retire los tornillos de los paneles fijos.
- El usuario no debe realizar las funciones de mantenimiento, salvo en lo que atañe a los componentes y materiales de mantenimiento que se mencionan en este manual.
- No coloque líquidos sobre la máquina.
- Utilice los materiales de mantenimiento o de otro tipo sólo para su propósito expreso.
- Mantenga los materiales de mantenimiento fuera del alcance de los niños.
- No mezcle líquidos limpiadores ni otras sustancias.
- Para evitar riesgos, cualquier modificación en los equipos Océ está estrictamente reservada al personal técnico.

Conexión

- Si desea cambiar la máquina de lugar, no lo haga usted mismo, solicite la asistencia del servicio de atención al cliente.
- Si por alguna razón se viera obligado a desplazar la máquina, compruebe que el punto de suministro eléctrico al que va a conectarla cuenta con un fusible de la capacidad adecuada. Consulte la hoja de datos de seguridad de Océ VarioPrint 2090 incluida en este apéndice para obtener más información sobre la corriente máxima.
- No realice puentes en ningún disyuntor mecánico ni eléctrico.
- No utilice cables prolongadores para conectar la máquina.
- Se recomienda conectar únicamente aquellos productos que cumplan con las normas nacionales e internacionales de seguridad de productos y de

interferencias de radiofrecuencias, así como utilizar un cable de conexión tal y como especifica Océ.

- Estos equipos no están diseñados para conectarse a un sistema de alimentación IT.
Por IT se entiende un sistema de alimentación en el que el hilo neutro no tiene conexión a tierra.
- En los equipos conectados a una toma mural: la máquina deberá ubicarse en un lugar cercano a la toma mural de fácil acceso.
- En los equipos conectados mediante una conexión fija a la red eléctrica: el interruptor de la conexión fija deberá hallarse en una posición fácilmente accesible.

Conexión a la red

Nunca conecte la máquina a un voltaje de red con un valor distinto al indicado en la etiqueta de indicación de potencia. La etiqueta de indicación de potencia se encuentra en la parte trasera de la máquina, a la izquierda de la entrada de red, tal y como se muestra en la ilustración. Si realiza la conexión a un voltaje de red distinto al requerido, póngase en contacto con el Servicio de atención al cliente de Océ.



[5] Ubicación de la etiqueta de indicación de potencia

Cable de conexión a la red

La máquina está conectada a la red mediante un cable de conexión de red desmontable. No utilice ningún cable de conexión de red que no sea el suministrado con la máquina y, cuando necesite sustituir el cable de red, póngase en contacto con el Servicio de atención al cliente para realizar la sustitución adecuada.

Entorno

- No obstruya las aberturas de ventilación de la máquina.
- Asegúrese de que la máquina está situada en una superficie horizontal plana con suficiente resistencia de carga. Consulte la hoja de datos de seguridad de Océ VarioPrint 2090 incluida en este manual para obtener más información sobre el peso de los equipos.
- Compruebe que dispone de espacio suficiente alrededor de la máquina, ya que esto facilita el mantenimiento.
- No coloque la máquina en lugares expuestos a una vibración excesiva.
- No coloque la máquina en espacios reducidos y con poca ventilación. Consulte la hoja de datos de seguridad de Océ VarioPrint 2090 incluida en este manual para obtener más información sobre el espacio mínimo recomendado y las condiciones de ventilación más adecuadas.

Refrigeración de la máquina

Para asegurarse de que existe una cantidad de aire suficiente para garantizar la refrigeración, compruebe que no haya ningún obstáculo en un radio de 30 metros en la parte izquierda y trasera de la máquina.

Solución de errores

Precaución

- No abra las puertas frontales de Océ VarioPrint 2090 cuando la máquina esté en funcionamiento, ya que puede tocar algunas partes en movimiento en el interior del sistema al acceder a la ruta del papel.
- Al eliminar un atasco de papel de la sección A1, es posible que toque accidentalmente las dos ruedas de goma que giran despacio, lo cual no es peligroso, pero puede asustarle.
- No toque la rendija de salida de las copias para retirar hojas de las bandejas de salida mientras el sistema esté en funcionamiento.

General

- Utilice siempre los materiales recomendados por Océ y producidos para esta máquina Océ. Los materiales que no cuentan con la aprobación de Océ pueden dañar la máquina.
- No utilice la máquina cuando emita ruidos extraños. En tal caso, retire el enchufe de la toma de corriente y avise al Servicio de atención al cliente.






Hojas de datos de seguridad

Introducción

El siguiente documento es válido para todas las hojas de datos de seguridad que aparecen en este manual. Si desea realizar alguna consulta sobre los productos de Océ relacionada con la salud, la seguridad o el medio ambiente, póngase en contacto con la organización de Océ, cuya dirección encontrará en el último apéndice de este manual.

Documento de renuncia de responsabilidad

Las hojas de datos de seguridad de este manual se han compilado con la última información disponible como guía compacta de manejo seguro de este producto. Océ se reserva el derecho de revisar las hojas de datos de seguridad a medida que disponga de nueva información. Es responsabilidad del usuario determinar la conveniencia de esta información para la adopción de las precauciones de seguridad que se estimen necesarias y ponerse en contacto con la compañía para comprobar que la hoja en su poder es la última publicada. En la medida en que las leyes aplicables permitan la limitación de la responsabilidad, Océ no se responsabiliza de los errores que pueda haber en esta información.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|--|---|
| Océ-Technologies B.V. | | Number E-750-a-NL | |
| | | Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5/-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{PA} = 32 dB(A) | In operation L _{PA} = 66 dB(A); impulse L _i = 4 dB(A) | |
| Sound power level | L _{WA} = 48 dB(A) | L _{WA} = 78 dB(A); | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended | 16500 A4 | |
| | Daily copy volume (much more than average) | 8 h | |
| | Total worktime | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | 0,2 mg/m ³ | (0,1 ppm) |
| | Odour Perception Limit for ozone | 0,04 mg/m ³ | (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

El contenido de esta hoja de datos de seguridad está sujeto al documento de renuncia de responsabilidad (consulte 'Hojas de datos de seguridad' en la página 69) de este capítulo.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number E-212-b-NL
Date July 2002
Page 1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET
(2001/58/EC and ISO 11014-1)

Number E-212-b-NL
Date July 2002
Page 2 of 2



Océ F11 Toner

9. Physical and chemical properties

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |

* These statements are based on toxicological literature on the ingredients of this product and test results of similar products.

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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El contenido de esta hoja de datos de seguridad está sujeto al documento de renuncia de responsabilidad (consulte 'Hojas de datos de seguridad' en la página 69) de este capítulo.

| | | | |
|---|--|---------------------------|--|
| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number E-193-c-NL |  |
| | | Date February 2001 | |
| | | Page 2 of 2 | |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Vapour density (air = 1) | N. | A. | Melting point (°C) N. |
| Solubility in water | I | nsoluble | Evaporation rate (butyl acetate = 1) N.A. |
| Vapour pressure | N. | A. | % Volatile 0 |
| Other characteristics | N.A. | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

El contenido de esta hoja de datos de seguridad está sujeto al documento de renuncia de responsabilidad (consulte 'Hojas de datos de seguridad' en la página 69) de este capítulo.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL

Date July 1997

Page 2 of 2

**Océ Cleaner O, Part No. 1055452****9. Physical and chemical properties**

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 * | Melting point (°C) | N.A. |
| Solubility in water | M iscible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.

IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

El contenido de esta hoja de datos de seguridad está sujeto al documento de renuncia de responsabilidad (consulte 'Hojas de datos de seguridad' en la página 69) de este capítulo.

EPA ENERGY STAR®

Introducción

Océ-Technologies B.V. suscribe el programa ENERGY STAR® de la Agencia de Protección Medioambiental (Environmental Protection Agency, EPA) de EE.UU. El objeto del programa ENERGY STAR® es fomentar la fabricación y comercialización de equipos de bajo consumo de energía y reducir así la contaminación provocada por los procesos relacionados con la combustión. El uso de las características de la gestión de la energía que se destacan a continuación evita el consumo innecesario de electricidad, lo que contribuye a reducir la contaminación procedente de las centrales eléctricas y reduce los gastos de electricidad del usuario.

En calidad de socio de ENERGY STAR®, Océ-Technologies B.V. ha determinado que el dispositivo Océ VarioPrint 2090 cumple las directrices de ENERGY STAR® relativas al rendimiento energético.

Lea la hoja de datos de seguridad del producto incluida en este manual de seguridad en lo referente a los datos de consumo de energía. Consulte el Manual de configuración y mantenimiento de Océ VarioPrint 2090 para establecer los modos de ahorro de energía.

Características

Los criterios del programa ENERGY STAR® incluyen las siguientes características:

Dos modos de ahorro de energía:

■ **El modo de bajo consumo**

Océ VarioPrint 2090 activa automáticamente el modo de bajo consumo 15 minutos después de que se haya completado el último trabajo. El operador especializado puede ajustar el tiempo predeterminado del modo de bajo consumo (de 1 a 240 minutos). El tiempo de recuperación necesario antes de realizar la siguiente copia o impresión es 38 segundos.

■ **Modo de reposo**

Océ VarioPrint 2090 activa automáticamente el modo de reposo 90 minutos después de que se haya completado el último trabajo. El operador especializado puede ajustar el tiempo predeterminado del modo de reposo (de 1 a 240 minutos).

Si los tiempos predefinidos para el modo de ahorro de energía (15 minutos) y para el modo de reposo (90 minutos) causaran alguna inconveniencia, el operador especializado puede aumentarlos hasta 240 minutos.

Nuestra recomendación es que determine el tiempo predeterminado apropiado según las pautas de trabajo del usuario modificando el ajuste a intervalos de 30 minutos y probando este ajuste durante un tiempo mínimo de una semana.

Sólo en caso de que los 240 minutos predeterminados para el modo de reposo siguieran causando problemas debido a un ritmo de trabajo en concreto, el operador especializado puede deshabilitarlo.

■ **Impresión automática a dos caras**

La impresión en ambas caras reduce los costes de papel, el consumo de energía de ámbito nacional y la cantidad de papel que se envía a los procesos de deshecho. Por tanto, está definido de forma predeterminada que la Océ VarioPrint 2090 realice la copia automática a dos caras.

■ **Papel reciclado**

El uso de papel reciclado también beneficia al medio ambiente. El dispositivo Océ VarioPrint 2090 está diseñado para utilizar papel reciclado. Para obtener información sobre los tipos recomendados de papel para copiar e imprimir reciclado, diríjase a las oficinas de Océ más cercanas o bien a la sede de Océ (Océ-Technologies B.V.) sita en Venlo, Países Bajos.



ENERGY STAR® es una marca registrada de Estados Unidos.

Chapitre 6

Consignes de sécurité



Précautions d'emploi

Les produits Océ ont été testés et répondent aux normes internationales de sécurité les plus strictes. Afin d'utiliser ces produits en toute sécurité, vous devez respecter les règles suivantes :

Maintenance

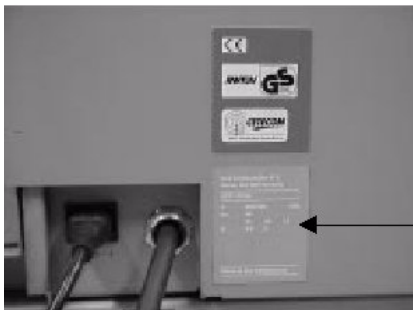
- Ne retirez aucune vis des panneaux fixes.
- N'entreprenez aucune opération de maintenance, à l'exception de celles décrites dans ce manuel.
- Ne posez aucun récipient contenant du liquide sur la machine.
- Les produits d'entretien ou autres produits ne doivent être utilisés que pour l'objet pour lequel ils ont été conçus.
- Conservez les produits d'entretien hors de portée des enfants.
- Ne mélangez pas les produits de nettoyage ou d'autres substances.
- Afin d'éviter tout risque inutile, toute modification de l'équipement doit impérativement être réalisée par des techniciens de maintenance suffisamment qualifiés et formés.

Connexion

- Si vous souhaitez déplacer la machine, veuillez contacter le service technique.
- Si vous devez déplacer seul la machine, vérifiez que le pouvoir de coupure de la source principale d'alimentation est adapté. Pour plus d'informations sur le courant maximal autorisé, reportez-vous à la fiche technique de sécurité de l'Océ VarioPrint 2090.
- Disjoncteurs mécaniques ou électriques : n'effectuez aucun branchement non conforme.
- Ne vous servez pas d'une rallonge pour brancher la machine.
- Ne connectez que des dispositifs respectant les normes (inter)nationales en matière de sécurité et d'interférence des fréquences radio et utilisez un câble de connexion conforme aux spécifications d'Océ.
- Cet appareil ne doit pas être connecté à un système électrique IT.
(un système électrique IT est un réseau de tension dans lequel le câble neutre n'est pas relié à la terre).
- Pour les appareils connectés à une prise murale : placez la machine près d'une prise murale facilement accessible.
- Pour les appareils branchés par une connexion fixe du tableau électrique : le système de déconnexion doit être facilement accessible.

Raccordement au secteur

Ne connectez jamais la machine à une tension d'alimentation différente de la valeur indiquée sur l'étiquette d'alimentation située à l'arrière de la machine, à droite du connecteur d'alimentation (voir figure ci-dessous). Si vous devez connecter l'appareil à une tension d'alimentation différente, contactez le service technique Océ.



[6] Emplacement de l'étiquette d'alimentation

Câble de raccordement au secteur

La machine est reliée au secteur par un câble électrique à connecteur amovible. N'utilisez pas d'autre câble que celui fourni avec la machine. Pour remplacer un câble endommagé ou défectueux, contactez le service technique.

Environnement

- N'obstruez pas les aérations de la machine.
- Vérifiez que la machine se trouve sur une surface plane, stable et solide. Pour plus d'informations sur le poids de l'appareil, reportez-vous à la fiche technique de sécurité de l'Océ VarioPrint 2090 de ce manuel.
- Vérifiez que l'espace libre autour de la machine est suffisant. Cela facilite la maintenance.
- Ne placez pas la machine dans une pièce sujette à des vibrations excessives.
- Ne placez pas la machine dans une pièce trop petite ou insuffisamment aérée. Pour plus d'informations sur l'espace et la ventilation minimum de la pièce, reportez-vous à la fiche technique de sécurité de l'Océ VarioPrint 2090 de ce manuel.

Refroidissement de la machine

Afin de permettre une aération et un refroidissement suffisants, l'arrière et le côté gauche de la machine doivent se trouver à une distance minimum de 30 cm du mur et de tout autre objet.

Gestion des erreurs

Danger

- N'ouvrez jamais les portes avant de l'Océ VarioPrint 2090 en fonctionnement. Vous risqueriez d'entrer en contact avec des pièces en mouvement en accédant au trajet du papier.
- Lorsque vous retirez un bourrage papier de la section A1, vous risquez de toucher deux roues en caoutchouc en rotation lente. Cette situation, bien qu'elle puisse vous surprendre, ne présente aucun danger.
- En fonctionnement, prenez garde à ne pas toucher la fente de sortie des copies lorsque vous retirez les feuilles des réceptacles de sortie.

Généralités

- Utilisez exclusivement les matériaux recommandés par Océ et conçus pour cet appareil. L'utilisation de matériaux non recommandés par Océ risque d'altérer le fonctionnement de l'appareil.
- N'utilisez pas la machine en cas d'émission de bruits inhabituels. Débranchez-la ou mettez la connexion fixe hors tension sur le tableau électrique, puis contactez le service technique.






Fiches techniques de sécurité

Introduction

L'avertissement ci-dessous concerne toutes les fiches techniques de sécurité de ce manuel. Pour toute question relative aux produits Océ en matière de santé, de sécurité et d'environnement, contactez votre représentant Océ ; vous trouverez son adresse dans la dernière annexe de ce manuel.

Avertissement

Les fiches techniques de sécurité de ce manuel ont été conçues comme un petit guide permettant d'utiliser ce produit en toute sécurité. Nous nous réservons le droit d'ajouter des informations à ces fiches. L'utilisateur est seul juge de l'à-propos de ces informations concernant les mesures de sécurité à prendre ; il doit s'assurer auprès de la société qu'il s'agit bien des dernières informations disponibles. Si et dans la mesure où une limitation de responsabilité est autorisée par la loi, nous déclinons toute responsabilité en cas d'inexactitude des informations fournies.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|--|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{pA} = 32 dB(A) | | In operation L _{pA} = 66 dB(A); impulse L _i = 4 dB(A) |
| Sound power level | L _{WA} = 48 dB(A) | | L _{WA} = 78 dB(A); |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m ³ (0,1 ppm) | | |
| | Odour Perception Limit for ozone 0,04 mg/m ³ (0,02 ppm) | | |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Le contenu de cette fiche technique de sécurité fait l'objet de la limitation de responsabilité (voir 'Fiches techniques de sécurité' à la page 85) de cette partie.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2

**Océ F11 Toner****1. Product and company identification**

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.

In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.

Room ventilation: see operator manual or safety data sheet for the copier/printer.

No special technical measures for storage.

Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.

Industrial hygiene: after skin contact wash with cold water and soap.

ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.

TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Le contenu de cette fiche technique de sécurité fait l'objet de la limitation de responsabilité (voir 'Fiches techniques de sécurité' à la page 85) de cette partie.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|------|---------------|--|
| | | Date | February 2001 |
| | | Page | 2 of 2 |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | |
| Vapour density (air = 1) | N. | A. | |
| Solubility in water | I | nsoluble | |
| Vapour pressure | N. | A. | |
| Other characteristics | N.A. | | |
| Density (g/cm ³) | | | approx. 1,4 |
| Melting point (°C) | N. | A. | |
| Evaporation rate (butyl acetate = 1) | | | N.A. |
| % Volatile | | | 0 |
| pH (solution) | | | N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | | | None at intended use |
| Hazardous decomposition products | | | None at intended use |
| Hazardous reaction | | | None at intended use |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | | | No adverse health effects are expected. |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | | | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 No special work hygiene practices needed.

Le contenu de cette fiche technique de sécurité fait l'objet de la limitation de responsabilité (voir 'Fiches techniques de sécurité' à la page 85) de cette partie.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL

Date July 1997

Page 2 of 2

**Océ Cleaner O, Part No. 1055452****9. Physical and chemical properties**

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | * | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 * | Melting point (°C) | N.A. |
| Solubility in water | M isible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.

IMO: Class 3.3; P.G.:III

RID/ADR : Class 3,31c; P.G.:III

ICAO/IATA-DGR: Class 3; P.G.:III

UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Le contenu de cette fiche technique de sécurité fait l'objet de la limitation de responsabilité (voir 'Fiches techniques de sécurité' à la page 85) de cette partie.

EPA ENERGY STAR®

Introduction

Océ-Technologies B.V. participe au programme ENERGY STAR® lancé par l'Agence de protection de l'environnement des Etats-Unis (United States Environmental Protection Agency - EPA). Le programme ENERGY STAR® vise à promouvoir la fabrication et la commercialisation d'équipements à faible consommation d'énergie, permettant donc de réduire la pollution liée à la combustion.

L'utilisation des fonctions de gestion de l'énergie, décrites ci-après, permettent de limiter la consommation d'énergie et de participer ainsi à la diminution de la pollution atmosphérique due à l'activité des centrales électriques, tout en réduisant vos coûts.

Partenaire du programme ENERGY STAR®, Océ-Technologies B.V. a déterminé que l'Océ VarioPrint 2090 est conforme aux règles ENERGY STAR® en matière d'économie d'énergie.

Pour toute information relative à la consommation d'énergie, reportez-vous à la Fiche technique de sécurité du produit de ce manuel.

Pour définir les modes d'économie d'énergie, reportez-vous au Manuel de configuration et de maintenance de l'Océ VarioPrint 2090.

Fonctions

Les critères ENERGY STAR® impliquent les fonctionnalités suivantes.

Deux modes d'économie d'énergie :

■ **Mode Economie d'énergie**

L'Océ VarioPrint 2090 bascule automatiquement en mode Economie d'énergie 15 minutes après le dernier travail. L'opérateur principal peut définir le délai par défaut du mode Economie d'énergie (de 1 à 240 minutes). Le délai de récupération nécessaire avant le prochain travail de copie ou d'impression est de 38 secondes.

■ **Mode Veille**

L'Océ VarioPrint 2090 bascule automatiquement en mode Veille 90 minutes après le dernier travail. L'opérateur principal peut définir le délai par défaut du mode Veille (de 1 à 240 minutes).

Si les délais par défaut du mode Economie d'énergie (15 minutes) ou du mode Veille (90 minutes) mentionnés plus haut ne conviennent pas, l'opérateur principal peut les étendre jusqu'à 240 minutes.

Pour que le délai choisi convienne parfaitement à votre rythme de travail, modifiez ce paramètre par pas de 30 minutes et testez chaque réglage pendant au moins une semaine.

Ce n'est que si la valeur maximale de 240 minutes reste inadaptée à votre rythme de travail que l'opérateur principal peut désactiver le mode Veille.

■ **Recto-verso automatique**

L'utilisation des deux côtés du papier permet de réduire les coûts, la consommation énergétique nationale et la quantité de papier à recycler. Le mode de copie recto verso est donc activé par défaut sur l'Océ VarioPrint 2090.

■ **Papier recyclé**

L'utilisation de papier recyclé est également bénéfique pour l'environnement. Océ VarioPrint 2090 peut être utilisé avec du papier recyclé. Vous pouvez obtenir des informations sur les types de papier d'imprimante/copieur recyclé auprès de votre société Océ locale ou du siège social de la compagnie (Océ-Technologies B.V.) implanté à Venlo, aux Pays-Bas.



ENERGY STAR® est une marque déposée américaine.

7. fejezet

Biztonsági információk



Biztonsági előírások

Az Océ által tervezett termékek vizsgálata a legszigorúbb nemzetközi szabványok alapján történt. A termékekkel végzett munka biztonságága érdekében fontos a következő biztonsági szabályok betartása:

Karbantartás

- Ne vegyen ki csavarokat a rögzített panelekből.
- Ne végezzen semmiféle karbantartási tevékenységet, kivéve az ebben a kézikönyvben említett alkatrészek karbantartását. Csak a kézikönyvben említett karbantartási anyagokat használja.
- Ne tegyen a gépre semmiféle folyadékot.
- A karbantartási anyagokat és egyéb anyagokat csak eredeti rendeltetésüknek megfelelően szabad használni.
- Ne tárolja a karbantartási anyagokat olyan helyen, ahol gyermekek hozzájuk férhetnek.
- Ne keverjen össze egymással tisztítófolyadékokat vagy más anyagokat.
- Az Océ berendezéseken bármilyen módosítást kizárólag megfelelő végzettségű és kiképzett szerviztechnikus végezhet, mivel az illetéktelen beavatkozás biztonsági kockázatokat idézhet elő.

Csatlakozás

- Ne helyezze át saját maga a gépet, hanem kérje a vevőszolgálat segítségét.
- Ha a gépet bármely oknál fogva saját magának kell áthelyeznie, ellenőrizze, hogy megfelelő-e tápellátás biztosítékának kapacitása. A maximális áramfelvételre vonatkozó információkért lásd az ebben a függelékben található Océ VarioPrint 2090 biztonsági adatlapot.
- Ne zárjon rövidre semmiféle mechanikus vagy elektromos áramkör-megszakítót.
- A gép csatlakoztatására ne használjon hosszabbítót.
- Csak olyan termékek csatlakoztatása ajánlott, amelyek megfelelnek a hazai (nemzetközi) termékbiztonságra és rádiófrekvenciás

interferenciára vonatkozó szabványoknak. Csatlakoztatásukra csak az Océ által előírt csatlakozókábelt használjon.

- A berendezés nem alkalmas IT energiarendszerhez való csatlakozásra.
(Az IT energiarendszer olyan áramhálózat, amelynek a nulla vezetéke nincs a földeléshez kötve).
- Fali dugaszolóaljzathoz csatlakozó berendezéseknél: a gépet egy könnyen hozzáférhető fali dugaszolóaljzat közelében kell elhelyezni.
- Elektromos hálózatba állandóra bekötött berendezések esetén: az állandó bekötésen található kikapcsoló eszköznek könnyen hozzáférhetőnek kell lennie.

Csatlakozás az elektromos hálózathoz

Sose csatlakoztassa a gépet a tápfeszültséget jelző címkén feltüntetettől különböző feszültségű elektromos hálózathoz. A feszültséget mutató címke a gép hátulján az árambemenet jobb oldalán található, ahogy az az alábbi ábrán is látható. Ha más tápfeszültséghez kell csatlakoztatni a készüléket, akkor kérje az Océ vevőszolgálat segítségét.



[7] Feszültséget jelölő címke

Áram csatlakozókábel

A gép egy leszerelhető csatlakozókábelrel kapcsolódik a tápellátáshoz. Csak a géphez mellékelt tápkábelt szabad használni. Ha sérülés vagy meghibásodás miatt ki kellene cserélni a tápkábelt, a vevőszolgálattól érdeklődjön a megfelelő helyettesítő kábel beszerezhetőségéről.

Környezet

- Ne fedje el a készülék szellőzőnyílásait.
- A készüléket egyenes, megfelelő teherbírású vízszintes felületen kell elhelyezni. A berendezés tömegére vonatkozó információk a

Biztonsági kézikönyvben található Océ VarioPrint 2090 biztonsági adatlapon olvashatók.

- Biztosítani kell, hogy elegendő hely legyen a gép körül. Ez teszi lehetővé a karbantartást.
- Ne helyezze el a gépet olyan helyiségben, amely jelentős rezgéseknek van kitéve.
- Ne helyezze el a gépet túl kicsi vagy nem kielégítő szellőzésű helyiségekben. Az ajánlott szobaterfogatra és szellőzésre vonatkozó információk a Biztonsági kézikönyvben található Océ VarioPrint 2090 biztonsági adatlapon olvashatók.

Gép hűtése

A hűtést szolgáló megfelelő légáramlás biztosítása céljából győződjön meg arról, hogy a gép bal oldalán és a teljes hátoldal hosszában egy legalább 30 cm-es távolságban semmi sem akadályozza a légáramlást.

Hibakezelés

Vigyázat!

- A gép működése közben sohase nyissa ki az Océ VarioPrint 2090 első ajtaját, mert a papírút elérése közben megérinthet egyes mozgó alkatrészeket is.
- Az elakadt papír A1 szekcióból történő eltávolításakor az operátor véletlenül hozzáérhet a két lassan forgó gumikerékhez. Ez nem veszélyes, de meglepő lehet.
- A rendszer működése közben a lapok kimeneti tálcából történő kivételekor ne érintse meg másolatok kimeneti nyílását.

Általános

- Mindig az Océ által ajánlott és az ehhez az Océ géphez kifejlesztett anyagokat használjon. Az Océ által jóvá nem hagyott anyagok a gép meghibásodását okozhatják.
- Ne használja a gépet, ha az szokatlan hangokat ad ki. Húzza ki a villásdugót a fali csatlakozóaljzataból, vagy kapcsolja ki a fix bekötést, és lépjen kapcsolatba a Vevőszolgálattal.






Biztonsági adatlapok

Bevezetés

Az alábbi felelősségkizárás a kézikönyvben található összes biztonsági adatlapra vonatkozik. Az Océ termékekhez kapcsolódó, egészségre, biztonságra és környezetvédelemre vonatkozó kérdéseivel forduljon a helyi Océ szervezethez, amelynek címe a kézikönyv utolsó függelékében található.

Felelősségkizárás

A biztonsági adatlapok a legjobb tudomásunk szerint készültek el, a termék biztonságos kezelésére vonatkozó rövid útmutatóként. Fenntartjuk a jogot arra, hogy új információk elérhetővé válása esetén átdolgozzuk a biztonsági adatlapokat. A felhasználó felelősége a biztonsági előírások alkalmazásakor az információk megfelelőségének megállapítása, amihez szükségessé válhat a vállalattal való kapcsolatfelvétel, a legutolsó változatú adatlap meglétének ellenőrzése érdekében. Amennyiben nem tiltják a vonatkozó jogszabályok a felelőség ezen korlátozását, nem vállalunk felelőséget az adatokban előforduló esetleges pontatlanságokért.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|---|
| Océ-Technologies B.V. | | | |
| | | Number | E-750-a-NL |
| | | Date | December 2002 |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | 722 kg | | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby $L_{pA} = 32$ dB(A) | In operation $L_{pA} = 66$ dB(A); impulse $L_I = 4$ dB(A) | |
| Sound power level | $L_{WA} = 48$ dB(A) | | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | 0,2 mg/m ³ | (0,1 ppm) |
| | Odour Perception Limit for ozone | 0,04 mg/m ³ | (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

A biztonsági adatlap tartalmára érvényes a felelősségkizáró nyilatkozat amely a fejezet (lásd 'Biztonsági adatlapok', 99. oldal) található.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2

**Océ F11 Toner****1. Product and company identification**

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.

In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

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**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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A biztonsági adatlap tartalmára érvényes a felelősségkizáró nyilatkozat amely a fejezet (lásd 'Biztonsági adatlapok', 99. oldal) található.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|--|----------|---|
| | | Date | February 2001 |
| | | Page | 2 of 2 |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | |
| Vapour density (air = 1) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Solubility in water | I | nsoluble | Melting point (°C) N. |
| Vapour pressure | N. | A. | Evaporation rate (butyl acetate = 1) N.A. |
| Other characteristics | N.A. | | % Volatile 0 |
| | | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

A biztonsági adatlap tartalmára érvényes a felelősségkizáró nyilatkozat amely a fejezet (lásd 'Biztonsági adatlapok', 99. oldal) található.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|---------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol %* | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400* |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05* | Melting point (°C) | N.A. |
| Solubility in water | M iscible | Evaporation rate (butyl acetate = 1) | 2,8* |
| Vapour pressure | 43 mbar at 20 °C* | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR: Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

A biztonsági adatlap tartalmára érvényes a felelősségkizáró nyilatkozat amely a fejezet (lásd 'Biztonsági adatlapok', 99. oldal) található.

EPA ENERGY STAR®

Bevezetés

Az Océ-Technologies B.V. csatlakozott az Egyesült Államok Környezetvédelmi Ügynöksége (EPA) által meghirdetett ENERGY STAR® programhoz. Az ENERGY STAR® program célja energiatakarékos berendezések gyártásának és eladásának elősegítése, amivel lehetőség nyílik az égéssel kibocsátott környezetszennyezés csökkentésére. Az alább ismertetett energiatakarékosági jellemzők kiküszöbölik a fölösleges energiafogyasztást, ami segít a villamos erőművek légszennyezésének csökkentésében, és csökkenti a közüzemi számlákkal járó költségeket.

ENERGY STAR® Partnerként, Océ-Technologies B.V. megállapította, hogy ez az Océ VarioPrint 2090 megfelel az ENERGY STAR® energiatakarékoságra vonatkozó előírásainak.

Az energiafogyasztási adatok megismerése érdekében olvassa el az ebben a biztonsági kézikönyvben található Termék biztonsági adatlapot. Az energiatakarékos módok ismertetése az Océ VarioPrint 2090 Konfigurációs és karbantartási útmutatóban olvasható.

Szolgáltatások

Az ENERGY STAR® előírás a következőket tartalmazza:

Két energiatakarékos üzemmód:

■ **Kis energiafogyasztású mód**

Az Océ VarioPrint 2090 15 perccel az utolsó munka befejezése után automatikusan kisfogyasztású módra tér át. A Kezelő módosíthatja a kisfogyasztású mód alapértelmezett idejét (1 és 240 perc között). A következő másolat/nyomatás elkészítéséhez 38 másodpercre van szükség.

■ **Energiatakarékos mód**

Az Océ VarioPrint 209090 perccel az utolsó munka befejezése után automatikusan energiatakarékos módra tér át. A Kezelő módosíthatja az energiatakarékos mód alapértelmezett idejét (1 és 240 perc között).

Ha a kis energiafogyasztás módnak (15 perc) vagy az energiatakarékos módnak (90 perc) megadott időök kényelmetlenséget okoznának, akkor a kezelő ezeket az alapértelmezett időket 240 percre is megnövelheti.

Az tanácsoljuk, hogy a munkavégzési szokásoknak megfelelő alapértelmezett időket úgy határozzák meg, hogy a beállításokat 30 perces időközönként változtatva minden egyes beállítást egy héten keresztül vizsgálják.

Ha még az energiatakarékos mód 240 perces beállítása is jelentős kényelmetlenséget okozna a munkavégzés rendje miatt, akkor a kezelő ebben az esetben ki is kapcsolhatja az energiatakarékos üzemmódot.

■ **Automatikus kétoldalas nyomatás**

A papír mindkét oldalának használatával csökkenthetők a papírköltségek, az ország energiafelhasználása és a hulladékfeldolgozási folyamatba kerülő papír mennyisége. Ezért az Océ VarioPrint 2090 alapértelmezés szerint automatikusan kétoldalas másolásra van beállítva.

■ **Újrahasznosított papír**

Az újrahasznosított papír szintén előnyös a környezet számára. Az Océ VarioPrint 2090 alkalmas újrahasznosított papírok használatára. Az újrahasznosított másoló- és nyomtatópapírokra vonatkozó termékleírások a helyi Océ kirendeltségtől vagy az Océ központtól (Océ-Technologies B.V.) szerezhető meg, amely Hollandiában, Venlo városában található.



Az ENERGY STAR® az Egyesült Államokban bejegyzett védjegy.

Capitolo 8

Informazioni sulla sicurezza



Istruzioni per l'uso sicuro

I prodotti progettati dalla Océ sono stati controllati in conformità agli standard di sicurezza internazionali più rigorosi. Per garantire la sicurezza di questi prodotti, è importante osservare le istruzioni riportate di seguito.

Manutenzione

- Non rimuovere alcuna vite dai pannelli fissi.
- Non eseguire attività di manutenzione diverse da quelle indicate per i componenti e i materiali descritti in questo manuale.
- Non appoggiare sulla macchina recipienti contenenti dei liquidi.
- I materiali per la manutenzione o per altre operazioni specifiche devono essere utilizzati esclusivamente per il relativo scopo originale.
- Tenere i materiali per la manutenzione al di fuori della portata dei bambini.
- Non mescolare i liquidi per la pulizia o altre sostanze.
- Per evitare eventuali rischi o danni, ogni modifica deve essere effettuata rigorosamente da personale specializzato.

Collegamento

- Non spostare la macchina da soli; contattare il servizio di assistenza.
- Qualora, per qualsiasi motivo, si dovesse spostare la macchina senza l'intervento del tecnico Océ, accertarsi che la presa sia adeguata in base all'assorbimento elettrico della macchina. Per informazioni sui livelli massimi di alimentazione consentiti, vedere la scheda dei dati tecnici di sicurezza della Océ VarioPrint 2090 in questa appendice.
- Non collegare alcun interruttore automatico meccanico o elettrico.
- Non utilizzare un cavo di prolunga per collegare la macchina alla presa.
- Si consiglia di collegare solo dispositivi rispondenti alle norme di sicurezza nazionali ed internazionali, nonché agli standard relativi alle interferenze radio, utilizzando un cavo di collegamento consigliato dalla Océ.
- Questa macchina non è stata progettata per essere collegata ad un sistema di alimentazione TI
(consistente in una rete di tensione in cui il conduttore neutro e la messa a terra di sicurezza sono separati).
- Per i dispositivi collegati tramite presa a muro, accertarsi che la presa si trovi in una posizione facilmente accessibile.
- Per i dispositivi collegati tramite connessione fissa alla rete elettrica, accertarsi che l'interruttore presente sulla connessione fissa si trovi in una posizione facilmente accessibile.

Collegamento elettrico

Non collegare la macchina a una presa con una tensione diversa da quella indicata sull'etichetta contenente le specifiche di alimentazione. L'etichetta contenente le specifiche di alimentazione si trova sul lato posteriore, a destra della presa principale. Vedere la figura seguente. Se fosse necessario utilizzare una tensione diversa, contattare il servizio di assistenza Océ.



[8] Ubicazione dell'etichetta contenente le specifiche di alimentazione

Presa principale

Per il collegamento alla rete di alimentazione elettrica viene utilizzato un cavo di alimentazione rimovibile. Non utilizzare un cavo diverso da quello fornito con questo prodotto. Per la sostituzione del cavo di alimentazione, danneggiato o difettoso, contattare il servizio di assistenza.

Ambiente circostante

- Non ostruire le aperture per la ventilazione della macchina.
- Appoggiare la macchina su una superficie orizzontale piana e abbastanza resistente per sostenerla. Per informazioni sul peso della macchina, vedere la scheda dei dati tecnici di sicurezza della Océ VarioPrint 2090 nel presente manuale.
- Accertarsi che intorno alla macchina vi sia abbastanza spazio. Ciò facilita la manutenzione.
- Non installare la macchina in locali soggetti ad eccessive vibrazioni.
- Non installare la macchina in locali troppo piccoli e insufficientemente ventilati. Per informazioni sulla cubatura dell'ambiente e la ventilazione consigliate, vedere la scheda dei dati tecnici di sicurezza della Océ VarioPrint 2090 nel presente manuale.

Raffreddamento

Per garantire una circolazione d'aria sufficiente al raffreddamento della macchina, assicurarsi che il lato sinistro e quello posteriore abbiano almeno 30 cm liberi da ostacoli.

gestione degli errori

Attenzione

- Non aprire mai gli sportelli anteriori di Océ VarioPrint 2090 durante il funzionamento, poiché l'accesso al percorso della carta espone al rischio di toccare parti in movimento.
- Rimuovendo un inceppamento della carta dalla sezione A1, è possibile toccare accidentalmente le due rotelle in gomma in movimento. Ciò non costituisce un pericolo, tuttavia si consiglia prudenza.
- Durante il funzionamento del sistema, non toccare l'apertura di uscita delle copie rimuovendo fogli dai vassoi di uscita.

Disposizioni generali

- Utilizzare sempre i materiali consigliati dalla Océ e creati appositamente per questa macchina Océ, poiché quelli non approvati dalla Océ potrebbero danneggiarla.
- Non utilizzare la macchina qualora emetta rumori insoliti. In questo caso, scollegare la spina dalla presa a muro o spegnere l'interruttore del collegamento fisso alla rete elettrica e contattare il servizio di assistenza.

schede dei dati tecnici di sicurezza






Introduzione

La limitazione delle responsabilità riportata di seguito è valida per tutte le schede dei dati tecnici di sicurezza contenute in questo manuale. Per informazioni sulla sicurezza, la salute e l'ambiente relativamente all'uso dei prodotti Océ, contattare una delle sedi Océ. Per un elenco degli indirizzi di tali sedi, consultare l'ultima appendice del presente manuale.

Limitazione

Le schede dei dati tecnici di sicurezza contenute in questo manuale sono state compilate al meglio delle nostre conoscenze come una breve guida per una gestione sicura di questo prodotto. Ci riserviamo il diritto di modificare tali schede di sicurezza in caso si rendano disponibili nuove informazioni. È responsabilità dell'utente determinare l'adeguatezza di queste informazioni per l'adozione di eventuali precauzioni di sicurezza necessarie e contattare la Océ per assicurarsi che questa scheda sia l'ultima pubblicata. Se e nella misura in cui la limitazione di responsabilità è prevista dalle normative vigenti, noi non accettiamo responsabilità per qualsiasi inesattezza possa trovarsi in queste informazioni.

Scheda dati tecnici di sicurezza di Océ VarioPrint 2090

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|---|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5/-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby $L_{pA} = 32$ dB(A) | In operation $L_{pA} = 66$ dB(A); impulse $L_1 = 4$ dB(A) | |
| Sound power level | $L_{WA} = 48$ dB(A) | $L_{WA} = 78$ dB(A); | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended | 16500 A4 | |
| | Daily copy volume (much more than average) | 8 h | |
| | Total worktime | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | 0,2 mg/m ³ | (0,1 ppm) |
| | Odour Perception Limit for ozone | 0,04 mg/m ³ | (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Il contenuto di questa scheda dei dati tecnici di sicurezza è soggetto alla limitazione di responsabilità riportata nella (vedere 'schede dei dati tecnici di sicurezza' a pagina 115) del presente capitolo.

Scheda dei dati tecnici di sicurezza del toner F11 Océ

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Il contenuto di questa scheda dei dati tecnici di sicurezza è soggetto alla limitazione di responsabilità riportata nella (vedere 'schede dei dati tecnici di sicurezza' a pagina 115) del presente capitolo.

| | | | |
|---|--|---------------------------|--|
| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number E-193-c-NL |  |
| | | Date February 2001 | |
| | | Page 2 of 2 | |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Vapour density (air = 1) | N. | A. | Melting point (°C) N. |
| Solubility in water | I | nsoluble | Evaporation rate (butyl acetate = 1) N.A. |
| Vapour pressure | N. | A. | % Volatile 0 |
| Other characteristics | N.A. | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

Il contenuto di questa scheda dei dati tecnici di sicurezza è soggetto alla limitazione di responsabilità riportata nella (vedere 'schede dei dati tecnici di sicurezza' a pagina 115) del presente capitolo.

Scheda dei dati tecnici di sicurezza del detergente O Océ

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
Normal work hygiene practices needed.
Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 | Melting point (°C) | N.A. |
| Solubility in water | M iscible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Il contenuto di questa scheda dei dati tecnici di sicurezza è soggetto alla limitazione di responsabilità riportata nella (vedere 'schede dei dati tecnici di sicurezza' a pagina 115) del presente capitolo.

EPA ENERGY STAR®

Introduzione

Océ-Technologies B.V. ha aderito al programma ENERGY STAR® dell'EPA (Environmental Protection Agency) degli Stati Uniti. Il programma ENERGY STAR® intende promuovere la produzione e la vendita di apparecchiature a consumo controllato di energia, che consentono una riduzione potenziale dell'inquinamento da combustione.

L'uso delle funzioni per il risparmio energetico descritte di seguito evita sprechi di energia, limita l'inquinamento atmosferico derivante da generatori di elettricità e allo stesso tempo consente di risparmiare sui costi di esercizio.

In qualità di partner del progetto ENERGY STAR® Partner, Océ-Technologies B.V. ha determinato che Océ VarioPrint 2090, è conforme agli standard ENERGY STAR® per la riduzione dei consumi elettrici.

Per informazioni sui dati di consumo elettrico leggere la scheda dei dati di sicurezza disponibile nel presente manuale.

Per impostare le modalità di risparmio energetico leggere il Manuale di configurazione e di manutenzione di Océ VarioPrint 2090.

Funzioni

I criteri ENERGY STAR® riguardano le seguenti funzioni.

Due modalità di risparmio energetico:

■ **Risparmio energetico**

Océ VarioPrint 2090 attiva automaticamente la modalità risparmio energia 15 minuti dopo il completamento dell'ultimo lavoro. L'operatore può regolare il tempo predefinito della modalità risparmio energia (1- 240 minuti). Il tempo di ripristino prima della prossima copia/stampa, è di 38 secondi.

■ **Attesa**

Océ VarioPrint 2090 attiva automaticamente la modalità di attesa 90 minuti dopo il completamento dell'ultimo lavoro. L'operatore può regolare il tempo predefinito della modalità di attesa (1- 240 minuti).

Se i tempi predefiniti citati sopra per la modalità risparmio energia (15 minuti) o la modalità di attesa (90 minuti) causano inconvenienti, l'operatore può aumentare il limite fino a un massimo di 240 minuti.

Per determinare l'intervallo di tempo predefinito appropriato per le diverse esigenze lavorative, si consiglia di modificare l'impostazione in incrementi di 30 minuti e di provare ogni impostazione per almeno una settimana.

Solo nel caso in cui il limite della modalità di attesa di 240 minuti continui a causare problemi rilevanti per il tipo di utilizzo della macchina, l'operatore può disattivare la modalità di attesa.

■ **Duplex automatico**

L'uso di entrambe le facciate del foglio riduce i costi, i consumi di energia elettrica e la quantità di carta da riciclare. Pertanto, la Océ VarioPrint 2090 è impostata automaticamente per la copia duplex automatica

■ **Carta riciclata**

L'uso di carta riciclata presenta dei vantaggi anche dal punto di vista ambientale. La Océ VarioPrint 2090 è progettata per l'uso di carta riciclata. Per informazioni sui tipi di carta riciclata per copia e stampa che è possibile utilizzare, rivolgersi alla sede locale Océ o alla sede centrale Océ (Océ-Technologies B.V.) di Venlo nei Paesi Bassi.



ENERGY STAR® è un marchio registrato negli Stati Uniti.

Hoofdstuk 9

Veiligheidsgegevens



Aanwijzingen voor veilig gebruik

De producten van Océ zijn getest in overeenstemming met de strengste internationale veiligheidsnormen. Voor het veilig omgaan met deze producten is het belangrijk dat u de volgende veiligheidsregels in acht neemt:

Onderhoud

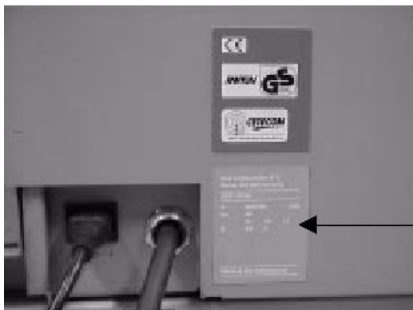
- Verwijder geen schroeven van vaste onderdelen.
- Verricht alléén onderhoud aan de onderdelen die hiervoor in deze handleiding worden vermeld en gebruik daartoe alléén de in deze handleiding genoemde onderhoudsmiddelen.
- Plaats geen vloeistoffen op het apparaat.
- Gebruik onderhoudsmaterialen of andere materialen alleen waarvoor ze bestemd zijn.
- Houd onderhoudsmaterialen buiten het bereik van kinderen.
- Meng geen schoonmaakmiddelen of andere materialen.
- Om risico's te vermijden, mogen wijzigingen aan Océ-apparaten uitsluitend worden uitgevoerd door een service-technicus.

Aansluiting

- Verplaats het apparaat niet zelf. Neem hiervoor contact op met de service-organisatie.
- Indien u de machine toch moet verplaatsen, controleert u of het stopcontact de juiste netspanning heeft. Raadpleeg het veiligheidsinformatieblad van de Océ VarioPrint 2090 in deze bijlage voor informatie over de maximale stroomsterkte.
- Overbrug geen mechanische of elektrische stroomonderbrekers.
- Gebruik geen verlengsnoer om de machine aan te sluiten.
- Het is raadzaam om uitsluitend apparatuur aan te sluiten die voldoet aan (inter)nationale normen voor productveiligheid en hoogfrequentstoringen. Gebruik uitsluitend door Océ gespecificeerde verbindingkabels.
- Dit apparaat is niet geschikt voor aansluiting op een IT-stroomsysteem. (Een IT-stroomsysteem is een spanningsnetwerk waarbij de nuldraad niet is verbonden met de aarde).
- Voor apparatuur die is aangesloten via een wandcontactdoos: plaats het apparaat dichtbij een wandcontactdoos die gemakkelijk toegankelijk is.
- Voor apparatuur die is aangesloten via een vaste verbinding met het elektriciteitsnet: de vaste verbinding moet gemakkelijk kunnen worden uitgeschakeld.

Netaansluiting

Sluit het apparaat nooit aan op een stopcontact met een voltage dat afwijkend is van de standaardwaarde die op de label staat vermeld. U vindt deze label op de achterkant van het apparaat, rechts van de voedingsingang (zie onderstaande afbeelding). Indien het elektriciteitsnet een ander voltage heeft, moet u contact opnemen met de service-organisatie van Océ.



[9] Locatie van de label

Elektriciteitskabel

Het apparaat is met een afneembare elektriciteitskabel op de netvoeding aangesloten. Gebruik geen andere kabel dan die bij het apparaat is geleverd. Als de kabel moet worden vervangen wegens schade of defecten, neemt u contact op met de service-organisatie.

Omgeving

- Blokkeer de ventilatieopeningen van het apparaat niet.
- Plaats het apparaat op een vlakke, horizontale en stevige ondergrond. Zie het veiligheidsinformatieblad van de Océ VarioPrint 2090 in deze veiligheidshandleiding voor informatie over het gewicht van de machine.
- Er moet voldoende ruimte rond de machine aanwezig zijn. Dit vergemakkelijkt het onderhoud.
- Plaats de machine niet in ruimten die onderhevig zijn aan sterke trillingen.
- Plaats de machine niet in ruimten die te klein en onvoldoende geventileerd zijn. Zie het veiligheidsinformatieblad van de Océ VarioPrint 2090 in deze veiligheidshandleiding voor informatie over de aanbevolen minimale ruimte en ventilatie.

Koeling van het apparaat

Laat aan de linkerkant en de gehele achterkant van het apparaat minstens dertig centimeter ruimte vrij, zodat er voldoende lucht van en naar het apparaat kan stromen voor koeling.

Foutmeldingen oplossen

Waarschuwing

- Open nooit de deuren van de Océ VarioPrint 2090 terwijl het apparaat is ingeschakeld. U kunt namelijk in aanraking komen met bewegende delen wanneer u problemen met de papierbaan in het systeem probeert op te lossen.
- Wanneer u een papierstoring uit sectie A1 verwijdert, kunt u in aanraking komen met twee rubberen wielletjes die langzaam draaien. Dit is niet gevaarlijk, maar u kunt er toch van schrikken.
- Raak de uitvoersleuf niet aan als u vellen uit de uitvoerladen verwijdert terwijl het systeem is ingeschakeld.

Algemeen

- Gebruik altijd materiaal dat is aanbevolen door Océ en dat voor deze Océ-machine is ontworpen. Materialen die niet zijn goedgekeurd door Océ, kunnen storingen in het apparaat veroorzaken.
- Gebruik het apparaat niet wanneer het ongebruikelijke geluiden produceert. Trek de stekker uit het stopcontact of schakel de vaste verbinding met het elektriciteitsnet uit en neem contact op met de service-organisatie.






Veiligheidsinformatiebladen

Inleiding

De volgende niet-aansprakelijkheidsverklaring is van toepassing op alle veiligheidsinformatiebladen in deze handleiding. Neem contact op met de Océ-organisatie voor vragen over Océ-producten en gezondheid, veiligheid of milieu. Het adres vindt u in de laatste bijlage van deze handleiding.

Niet-aansprakelijkheidsverklaring

Deze veiligheidsinformatiebladen zijn naar beste weten samengesteld als een compacte handleiding voor een veilig gebruik van dit product. Océ behoudt zich het recht voor om veiligheidsinformatiebladen te wijzigen wanneer er nieuwe informatie beschikbaar is. Het is de verantwoordelijkheid van u als gebruiker de geschiktheid van deze informatie vast te stellen voor het treffen van eventueel noodzakelijke maatregelen en om bij Océ te informeren of dit blad de meest recente uitgave is. Indien en in zoverre als de aansprakelijkheid onder toepasselijk recht kan worden uitgesloten, aanvaarden wij geen aansprakelijkheid voor mogelijke onvolkomenheden in deze informatie.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|--|---|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{PA} = 32 dB(A) | In operation L _{PA} = 66 dB(A); impulse L _i = 4 dB(A) | |
| Sound power level | L _{WA} = 48 dB(A) | L _{WA} = 78 dB(A); | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m ³ (0,1 ppm) | | |
| | Odour Perception Limit for ozone 0,04 mg/m ³ (0,02 ppm) | | |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

De inhoud van dit veiligheidsinformatieblad is onderhevig aan de niet-aansprakelijkheidsverklaring (zie 'Veiligheidsinformatiebladen' op pagina 129) van dit hoofdstuk.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number E-212-b-NL
Date July 2002
Page 1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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De inhoud van dit veiligheidsinformatieblad is onderhevig aan de niet-aansprakelijkheidsverklaring (zie 'Veiligheidsinformatiebladen' op pagina 129) van dit hoofdstuk.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|------|---------------|--|
| | | Date | February 2001 |
| | | Page | 2 of 2 |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | |
| Vapour density (air = 1) | N. | A. | |
| Solubility in water | I | nsoluble | |
| Vapour pressure | N. | A. | |
| Other characteristics | N.A. | | |
| Density (g/cm ³) | | | approx. 1,4 |
| Melting point (°C) | N. | A. | |
| Evaporation rate (butyl acetate = 1) | | | N.A. |
| % Volatile | | | 0 |
| pH (solution) | | | N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | | | None at intended use |
| Hazardous decomposition products | | | None at intended use |
| Hazardous reaction | | | None at intended use |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | | | No adverse health effects are expected. |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | | | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |



MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

De inhoud van dit veiligheidsinformatieblad is onderhevig aan de niet-aansprakelijkheidsverklaring (zie 'Veiligheidsinformatiebladen' op pagina 129) van dit hoofdstuk.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|---------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol %* | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400* |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 | Melting point (°C) | N.A. |
| Solubility in water | M isobile | Evaporation rate (butyl acetate = 1) | 2,8* |
| Vapour pressure | 43 mbar at 20 °C* | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

De inhoud van dit veiligheidsinformatieblad is onderhevig aan de niet-aansprakelijkheidsverklaring (zie 'Veiligheidsinformatiebladen' op pagina 129) van dit hoofdstuk.

EPA ENERGY STAR®

Inleiding

Océ-Technologies B.V. maakt deel uit van het ENERGY STAR®-programma van de EPA (Environmental Protection Agency) in de Verenigde Staten. Het doel van het ENERGY STAR®-programma is het bevorderen van de productie en marketing van energiezuinige apparatuur, waardoor door verbranding ontstane vervuiling in potentie wordt verlaagd.

Als u gebruikmaakt van de volgende energiebeheervoorzieningen, voorkomt u onnodig energieverbruik. Dit helpt luchtvervuiling door elektriciteitscentrales te voorkomen en bespaart u elektriciteitskosten.

Als ENERGY STAR®-partner heeft Océ-Technologies B.V. vastgesteld dat de Océ VarioPrint 2090 voldoet aan de ENERGY STAR®-richtlijnen voor efficiënt energieverbruik.

Zie het veiligheidsinformatieblad van het product in deze veiligheidshandleiding voor gegevens over energieverbruik.

Raadpleeg de Configuratie- en onderhoudshandleiding van de Océ VarioPrint 2090 voor het instellen van de spaarstanden.

Funcities

De ENERGY STAR®-criteria omvatten de volgende kenmerken:

Twee spaarstanden:

- **Modus voor laag energieverbruik**

De Océ VarioPrint 2090 schakelt automatisch 15 minuten nadat de laatste opdracht is voltooid over op de energiespaarstand. De key-operator kan de standaardtijd voor de energiespaarstand aanpassen (1 - 240 minuten). De hersteltijd voordat de volgende kopie of afdruk kan worden gemaakt, is 38 seconden.

- **Slaapstand**

De Océ VarioPrint 2090 schakelt automatisch 90 minuten nadat de laatste opdracht is voltooid over op de slaapstand. De key-operator kan de standaardtijd voor de slaapstand aanpassen (1 - 240 minuten).

Indien de genoemde standaardtijden voor de modus voor laag energieverbruik (15 minuten) of slaapstand (90 minuten) niet bevallen, kan de key-operator de standaardtijden uitbreiden tot maximaal 240 minuten.

Het is aan te raden de standaardtijden aan te passen aan uw werkpatroon.

Dit kunt u doen door de instellingen met steeds 30 minuten aan te passen en deze minimaal een week te testen.

Wanneer de standaardlimiet van 240 minuten in de slaapstand ongemakken blijft veroorzaken als gevolg van uw specifieke werkpatroon, kan de key-operator de slaapstand uitschakelen.

- **Automatisch dubbelzijdig afdrukken en kopiëren**

Wanneer u beide zijden van het papier gebruikt, bespaart u kosten en worden het nationale energieverbruik en de hoeveelheid papier in de afvalverwerking verminderd. De Océ VarioPrint 2090 is standaard ingesteld op automatisch dubbelzijdig kopiëren.

- **Kringlooppapier**

Het gebruik van kringlooppapier is ook bevorderlijk voor het milieu. De Océ VarioPrint 2090 is dusdanig ontworpen dat gebruik van kringlooppapier mogelijk is. Productliteratuur over aanbevolen soorten kringlooppapier voor kopiëren en afdrukken kan worden verkregen bij de plaatselijke Océ-vestiging of bij het Océ-hoofdkantoor (Océ-Technologies B.V.) in Venlo, Nederland.



ENERGY STAR® is een gedeponiseerd handelsmerk in de Verenigde Staten.

Kapittel 10

Sikkerhetsopplysninger



Instruksjoner for sikker bruk

Océ-produkter er testet i samsvar med de strengeste internasjonale sikkerhetsstandarder. For å være sikker på at du bruker disse produktene på en sikker måte er det viktig at du følger disse sikkerhetsreglene:

Vedlikehold

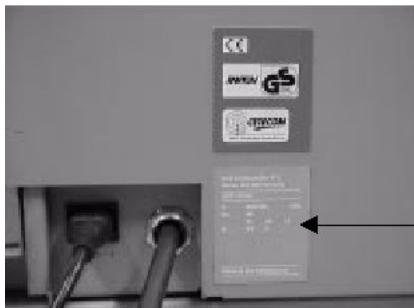
- Ikke fjern skruer fra faste paneler.
- Ikke utfør vedlikeholdssoppgaver på andre måter enn beskrevet i denne håndboken.
- Ikke sett flasker eller glass med væske på maskinen.
- Bruk vedlikeholdsmaterialer eller andre materialer bare til det de egentlig er beregnet til.
- Hold vedlikeholdsmaterialer unna barn.
- Ikke bland rengjøringsvæsker eller andre stoffer.
- For å unngå fare for skade skal alle endringer på Océ-utstyr bare utføres av kvalifisert og opplært servicepersonell.

Tilkobling

- Du må ikke flytte maskinen selv. Kontakt kundeservice.
- Hvis du av en eller annen grunn må flytte maskinen selv, må du sjekke at strømforsyningsenheten har riktig sikringskapasitet. Se produktdatabladet for Océ VarioPrint 2090 i dette vedlegget for informasjon om maksimal strøm.
- Du må ikke koble sammen mekaniske eller elektriske kretsbytere.
- Ikke bruk skjoteledning for å koble til maskinen.
- Vi anbefaler at du bare kobler til produkter som følger nasjonale og internasjonale standarder for produktsikkerhet og radiofrekvensforstyrrelser. Du bør også bruke tilkoblingskabler som angitt av Océ.
- Dette utstyret er ikke konstruert for tilkobling til et IT-strømsystem. (Et IT-strømsystem er et spenningsnett der den nøytrale ledningen ikke er koblet til jord).
- For utstyr som er tilkoblet via en stikkontakt: Plasser maskinen i nærheten av et lett tilgjengelig strømuttak i veggen.
- For utstyr som er tilkoblet via en fast tilkobling til elektrisitetsnettet: Frakoblingsenheten i den faste tilkoblingen bør være lett tilgjengelig.

Strømtilkobling

Koble aldri maskinen til en nettspenning som avviker fra verdien som er angitt på strømmerkingsetiketten. Strømmerkingsetiketten finnes på baksiden av maskinen, til høyre for strømkontakten. Se figuren nedenfor. Hvis du må koble til en annen nettspenning, må du kontakte Océ's kundeservice.



[10] Plassering av strømmerkingsetiketten

Strømkabel

Maskinen kobles til strømnettet med en løs strømkabel. Ikke bruk en annen strømkabel enn den som leveres sammen med maskinen. Hvis du må skifte ut strømkabelen, må du kontakte kundeservice for å få riktig kabel.

Omgivelser

- Ikke blokker ventilasjonsåpningene på maskinen.
- Kontroller at maskinen blir plassert på en plan, horisontal overflate med tilstrekkelig styrke. Se produktdatabladet for Océ VarioPrint 2090 i denne sikkerhetshåndboken hvis du vil ha informasjon om vekten på utstyret.
- Kontroller at det er nok plass rundt maskinen. Dette gjør det enklere å utføre vedlikehold.
- Ikke plasser maskinen i rom som er utsatt for sterk vibrasjon.
- Ikke plasser maskinen i rom som er for små og har dårlig ventilasjon. Se produktdatabladet for Océ VarioPrint 2090 i denne sikkerhetshåndboken hvis du vil ha informasjon om anbefalt minimum romstørrelse og ventilasjon.

Maskinkjøling

For å garantere tilstrekkelig luftstrøm for avkjøling må du passe på at venstre side og hele baksiden av maskinen ikke er tildekket, og at det er minst 30 cm fritt rom rundt den.

Feilhåndtering

Advarsel

- Åpne aldri frontdekslene på Océ VarioPrint 2090 når maskinen er i drift. Når du åpner opp til papirbanen inne i systemet, kan du komme i berøring med deler som beveger seg.
- Hvis du fjerner en papirstopp fra delen A1, kan du ved et uhell berøre to gummihjul som roterer sakte. Denne situasjonen er ikke farlig, men du kan bli overrasket.
- Når systemet er i drift, må du ikke berøre kopileveringssprekken når du fjerner ark fra leveringsbrettene.

Generelt

- Bruk alltid materialer som er anbefalt av Océ og som er utviklet for denne Océ-maskinen. Materialer som ikke er godkjent av Océ, kan føre til feil i maskinen.
- Ikke bruk maskinen hvis den lager unormale lyder. Trekk ut strømkontakten eller slå av den faste tilkoblingen til strømmettet og kontakt Océ's kundeservice.






Produktdatablad

Innledning

Retningslinjene nedenfor gjelder for alle produktdatablad i denne håndboken. Hvis du har spørsmål om Océ-produkter med hensyn til helse, sikkerhet og miljø, kan du kontakte ditt Océ-kontor. Adressen finner du i det siste vedlegget i denne håndboken.

Retningslinjer

Vi har satt sammen informasjonen i produktdatabladene i denne håndboken etter beste evne og kunnskap, som en kort veiledning for sikker behandling av dette produktet. Vi forbeholder oss retten til å revidere produktdatabladene så snart ny produktinformasjon foreligger. Det er brukers ansvar å avgjøre hvor egnet disse opplysningene er som grunnlag for nødvendige sikkerhetsforanstaltninger, og å kontakte selskapet for å kontrollere at siste utgave av produktdatabladet er mottatt. Hvis og i den grad ansvarsbegrensning er tillatt under gjeldende lov, påtar Océ seg intet ansvar for eventuelle unøyaktigheter som måtte finnes i denne informasjonen.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|--|
| Océ-Technologies B.V. | | Number | E-750-a-NL |
| | | Date | December 2002 |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{pA} = 32 dB(A) | | In operation L _{pA} = 66 dB(A); impulse L _i = 4 dB(A) |
| Sound power level | L _{WA} = 48 dB(A) | | L _{WA} = 78 dB(A); |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m ³ (0,1 ppm) | | |
| | Odour Perception Limit for ozone 0,04 mg/m ³ (0,02 ppm) | | |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Innholdet i dette produktdatabladet er underlagt retningslinjerne (se 'Produktdatablad' på side 143) i dette kapittelet.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Innholdet i dette produktdatabladet er underlagt retningslinjene (se 'Produktdatablad' på side 143) i dette kapitlet.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|--|---------------|---------------|
| | | Date | February 2001 |
| | | Page | 2 of 2 |



Océ Master, Part Nos. 2985808, 7001233

9. Physical and chemical properties

| | | | |
|---------------------------------|---------------------------|----------|--|
| Appearance and odour | dark brown odourless belt | | |
| Boiling point (°C) | N. | A. | |
| Vapour density (air = 1) | N. | A. | |
| Solubility in water | I | nsoluble | |
| Vapour pressure | N. | A. | |
| Other characteristics | N.A. | | |

| | | |
|---|------|-------------|
| Density (g/cm³) | | approx. 1,4 |
| Melting point (°C) | N. | A. |
| Evaporation rate (butyl acetate = 1) | N.A. | |
| % Volatile | 0 | |
| pH (solution) | N.A. | |

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous decomposition products | None at intended use |
| Hazardous reaction | None at intended use |

11. Toxicological information

| | |
|---------------------|--|
| Inhalation | N.A. |
| Skin | No adverse health effects are expected. |
| Eyes | N.A. |
| Ingestion | N.A. |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected.

13. Disposal considerations

With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration.

14. Transport information

This product is not classified as a dangerous substance according to the international transport regulations.

15. Regulatory information

This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product.

16. Other information

Use: photoconductor for copiers.
Revision of E-193-b July 1997
Modification: Part No added

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MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

Innholdet i dette produktdatabladet er underlagt retningslinjene (se 'Produktdatablad' på side 143) i dette kapitlet.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL

Date July 1997

Page 2 of 2

**Océ Cleaner O, Part No. 1055452****9. Physical and chemical properties**

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 * | Melting point (°C) | N.A. |
| Solubility in water | M isible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.

IMO: Class 3.3; P.G.:III

RID/ADR : Class 3.31; P.G.:III

ICAO/IATA-DGR: Class 3; P.G.:III

UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Innhudet i dette produktdatabladet er underlagt retningslinjene (se 'Produktdatablad' på side 143) i dette kapittelet.

EPA ENERGY STAR®

Innledning

Océ-Technologies B.V. er nå en del av ENERGY STAR®-programmet til EPA (United States Environmental Protection Agency). Formålet med ENERGY STAR®-programmet er å fremme produksjon og markedsføring av energieffektivt utstyr, for på denne måten å redusere forbrenningsfremkalt forurensning.

Ved å bruke strømstyringsfunksjonene beskrevet nedenfor, unngår du å bruke unødvendig mye strøm. Dette kan bidra til å forhindre luftforurensning fra kraftverk og vil gi lavere strømgifter.

Som ENERGY STAR®-partner har Océ-Technologies B.V. sørget for at Océ VarioPrint 2090 oppfyller ENERGY STAR®-retningslinjene for energieffektivitet.

Les produktdatabladet i denne sikkerhetshåndboken hvis du vil ha informasjon om strømforbruk.

Les konfigurasjons- og vedlikeholdshåndbøkene for Océ VarioPrint 2090 hvis du vil ha informasjon om hvordan du angir strømsparingsmodusene.

Funksjoner

ENERGY STAR®-kriteriene omfatter følgende funksjoner:

To strømsparingsmoduser:

■ **Lavstrømsmodus**

Océ VarioPrint 2090 går automatisk til lavstrømsmodus 15 minutter etter at siste jobb er fullført. Hovedoperatøren kan justere standardtiden for lavstrømsmodus (1-240 minutter). Gjenoppsettstiden før neste kopi/utskrift kan tas, er 38 sekunder.

■ **Deaktiveringsmodus**

Océ VarioPrint 2090 går automatisk til deaktiveringsmodus 90 minutter etter at siste jobb er fullført. Hovedoperatøren kan justere standardtiden for deaktiveringsmodus (1-240 minutter).

Hvis de ovennevnte standardtidene for lavstrømsmodus (15 minutter) eller deaktiveringsmodus (90 minutter) ikke passer, kan hovedoperatøren øke standardtiden til maksimalt 240 minutter.

Det kan være lurt å prøve ut ulike intervaller i omkring én uke (øk med 30 minutter) for å finne et som passer ditt arbeidsmønster.

Hovedoperatøren kan ikke deaktivere deaktiveringsmodusen med mindre et standardintervall for deaktiveringsmodus på 240 minutter passer svært dårlig til ditt spesielle arbeidsmønster.

■ **Automatisk 2-sidig**

Hvis du bruker begge sider av papiret, reduseres papirkostnadene, det nasjonale strømforbruket og mengden papir i avfallshåndteringen. Derfor er Océ VarioPrint 2090 som standard innstilt for automatisk 2-sidig kopiering.

■ **Resirkulert papir**

Bruk av resirkulert papir er også en fordel for miljøet. Océ VarioPrint 2090 er konstruert for å bruke resirkulert papir. Produktlitteratur om anbefalte typer resirkulert kopi-/utskriftspapir er tilgjengelig fra ditt lokale Océ-kontor eller fra Océ's hovedkontor (Océ-Technologies B.V.) i Venlo, Nederland.



ENERGY STAR® er et varemerke registrert i USA.

Rozdział 11

Informacje związane z bezpieczeństwem



Wskazówki dotyczące bezpieczeństwa podczas korzystania z urządzenia

Produkty opracowane przez firmę Océ zostały przetestowane zgodnie z najsurowszymi międzynarodowymi normami bezpieczeństwa. W celu zapewnienia bezpiecznej pracy z tymi produktami, należy przestrzegać następujących zasad bezpieczeństwa:

Obsługa urządzenia

- Nie należy odkręcać żadnych śrub z przykręconych na stałe paneli.
- Nie należy wykonywać żadnych czynności konserwacyjnych innych niż czynności związane z częściami i materiałami konserwacyjnymi, które zostały wymienione w tym podręczniku.
- Nie należy umieszczać na urządzeniu żadnych płynów.
- Należy używać materiałów konserwacyjnych oraz innych materiałów tylko zgodnie z ich przeznaczeniem.
- Materiały konserwacyjne należy przechowywać w miejscu niedostępnym dla dzieci.
- Nie należy mieszać środków czyszczących i innych substancji.
- W celu wyeliminowania potencjalnych zagrożeń wszystkie modyfikacje urządzeń firmy Océ mogą być wykonywane wyłącznie przez odpowiednio wykwalifikowanych i przeszkolonych pracowników serwisu technicznego.

Połączenia

- Nie wolno samodzielnie przemieszczać urządzenia - należy skontaktować się z serwisem.
- Jeśli z jakichś powodów użytkownik musi samodzielnie przesunąć urządzenie, należy upewnić się, że główne źródło zasilania jest wyposażone w odpowiednie bezpieczniki. Informacje na temat maksymalnego natężenia prądu można znaleźć w niniejszym dodatku w arkuszu danych dotyczących bezpieczeństwa urządzenia Océ VarioPrint 2090.
- Nie należy mostkować żadnych wyłączników mechanicznych ani elektrycznych.
- Do podłączenia urządzenia nie należy używać przedłużacza.
- Zalecane jest podłączenie tylko takich urządzeń, które spełniają (międzynarodowe standardy bezpieczeństwa produktu i zakłóceń o

częstotliwościach radiowych, oraz korzystanie w tym celu z przewodów połączeniowych określonych przez firmę Océ.

- Urządzenie nie jest przeznaczone do podłączenia do systemu energetycznego IT.
(System energetyczny IT to sieć napięciowa, w której przewód zerowy nie jest uziemiony).
- W przypadku urządzeń podłączonych do gniazda ściennego: należy umieścić urządzenie w pobliżu łatwo dostępnego gniazda ściennego.
- W przypadku urządzeń podłączonych za pośrednictwem stałego przyłącza do sieci energetycznej: wyłącznik umieszczony w podłączeniu stałym powinien być łatwo dostępny.

Podłączenie do sieci zasilającej

Nie należy podłączać urządzenia do sieci zasilającej o wartości napięcia innej niż określona na etykiecie z oznaczeniem poboru mocy. Etykieta z oznaczeniem poboru mocy znajduje się z tyłu urządzenia po prawej stronie gniazda zasilania; zobacz rysunek poniżej. Jeśli konieczne jest podłączenie do sieci o innym napięciu, należy skontaktować się z serwisem firmy Océ.



[11] Umieszczenie etykiety z oznaczeniem poboru mocy

Przewód zasilający

Urządzenie jest podłączane do sieci zasilającej za pomocą odłączanego przewodu zasilającego. Należy stosować wyłącznie przewód zasilający dostarczony wraz z urządzeniem. Jeśli z powodu uszkodzenia lub niesprawności przewodu zasilającego konieczna jest jego wymiana, należy skontaktować się z serwisem w celu prawidłowej wymiany przewodu.

Otoczenie

- Nie należy zasłaniać szczelin wentylacyjnych urządzenia.
- Należy upewnić się, że urządzenie stoi na równej, poziomej powierzchni o dostatecznej wytrzymałości. Informacje o ciężarze urządzenia można znaleźć w niniejszej instrukcji w arkuszu danych dotyczących bezpieczeństwa urządzenia Océ VarioPrint 2090.
- Należy upewnić się, że wokół urządzenia jest dostatecznie dużo wolnego miejsca. Ułatwia to obsługę urządzenia.
- Nie należy umieszczać urządzenia w pomieszczeniach narażonych na duże drgania.
- Nie należy umieszczać urządzenia w zbyt małych i niedostatecznie wentylowanych pomieszczeniach. Informacje na temat wymagań związanych z wentylacją i wymagań dotyczących przestrzeni można znaleźć w niniejszej instrukcji w arkuszu danych dotyczących bezpieczeństwa urządzenia Océ VarioPrint 2090.

Chłodzenie urządzenia

Aby zapewnić dostateczny przepływ powietrza chłodzącego urządzenie, należy pozostawić wolną przestrzeń z lewej strony i z tyłu urządzenia na odległość co najmniej 30 cm.

Obsługa błędów

Ostrzeżenie

- Nigdy nie należy otwierać przednich drzwiczek urządzenia Océ VarioPrint 2090 podczas jego pracy, ponieważ sięganie do ścieżki papieru grozi dotknięciem ruchomych elementów.
- Usuwając zakleszczony papier z sekcji A1, można przypadkowo dotknąć obracających się wolno dwóch gumowych kółek. Nie jest to niebezpieczne, może jednak wywołać zaskoczenie.
- Podczas pracy urządzenia, wyjmując arkusze z tac odbiorczych, nie należy dotykać szczeliny, z której wysuwana jest kopia.

Ogólne

- Należy zawsze używać materiałów zalecanych przez firmę Océ i przeznaczonych dla tego urządzenia firmy Océ. Materiały niezalecane przez firmę Océ mogą spowodować wadliwe funkcjonowanie urządzenia.
- Nie należy korzystać z urządzenia, jeśli wydaje ono nietypowe dźwięki. Należy wyjąć wtyczkę z gniazda zasilania lub odłączyć stałą

podłączenie do sieci energetycznej, a następnie skontaktować się z serwisem.

Arkusze danych dotyczących bezpieczeństwa






Wprowadzenie

Poniższe wykluczenie odpowiedzialności odnosi się do wszystkich arkuszy danych dotyczących bezpieczeństwa w tym podręczniku. Aby uzyskać informacje na temat zagrożeń dla zdrowia, bezpieczeństwa i środowiska pracy związanych z korzystaniem z produktów firmy Océ, należy skontaktować się z lokalnym przedstawicielem firmy Océ; adres można znaleźć w ostatnim dodatku do niniejszego podręcznika.

Wykluczenie odpowiedzialności


Zawarte w tym podręczniku arkusze danych dotyczących bezpieczeństwa zostały opracowane jako krótki przewodnik bezpiecznego korzystania z produktu. Zastrzegamy sobie prawo do wprowadzania poprawek w arkuszach danych dotyczących bezpieczeństwa w miarę napływu nowych informacji. Użytkownik powinien sam ustalić przydatność tych informacji do podjęcia koniecznych środków ostrożności i skontaktować się z firmą, aby upewnić się, że dysponuje najnowszym arkuszem. W ramach wykluczenia odpowiedzialności w stopniu zgodnym z odpowiednimi przepisami nie przyjmujemy odpowiedzialności za nieścisłości mogące wystąpić w tych informacjach.

Arkusz danych dotyczących bezpieczeństwa pracy z urządzeniem Océ VarioPrint 2090

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|--|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby $L_{pA} = 32$ dB(A) | | In operation $L_{pA} = 66$ dB(A); impulse $L_I = 4$ dB(A) |
| Sound power level | $L_{WA} = 48$ dB(A) | | $L_{WA} = 78$ dB(A); |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone 0,2 mg/m ³ (0,1 ppm) | | |
| | Odour Perception Limit for ozone | | 0,04 mg/m ³ (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

Treść tego arkusza danych dotyczących bezpieczeństwa podlega wykluczeniu odpowiedzialności (patrz 'Arkusz danych dotyczących bezpieczeństwa' na stronie 158) do tego rozdziału.

| MATERIAL SAFETY DATA SHEET | | Number | E-212-b-NL |
|-----------------------------------|--|---------------|------------|
| 2001/58/EC and ISO 11014-1) | | Date | July 2002 |
| | | Page | 1 of 2 |



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

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**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAO/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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Treść tego arkusza danych dotyczących bezpieczeństwa podlega wykluczeniu odpowiedzialności (patrz 'Arkusz danych dotyczących bezpieczeństwa' na stronie 158) do tego rozdziału.

| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number | E-193-c-NL |
|---|--|----------|---|
| | | Date | February 2001 |
| | | Page | 2 of 2 |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | |
| Vapour density (air = 1) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Solubility in water | I | nsoluble | Melting point (°C) N. |
| Vapour pressure | N. | A. | Evaporation rate (butyl acetate = 1) N.A. |
| Other characteristics | N.A. | | % Volatile 0 |
| | | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

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Date

February 2001

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**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.


7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

Treść tego arkusza danych dotyczących bezpieczeństwa podlega wykluczeniu odpowiedzialności (patrz 'Arkusz danych dotyczących bezpieczeństwa' na stronie 158) do tego rozdziału.

| | | | | |
|---|--|---|-----------------------------------|---|
| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number Date Page | E-145-c-NL July 1997 1 of 2 |  |
| Océ Cleaner O, Part No. 1055452 | | | | |
| 1. Product and company identification | | | | |
| Product name | Océ Cleaner O, Part No. 1055452 | | | |
| Packing | Polyethylene bottle, contents 100 ml | | | |
| Company | Océ-Technologies B.V. | | | |
| Address | St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands | | | |
| Telephone | +31 77 359 21 64 (extension product safety coordinator) | | | |
| Telefax | +31 77 359 54 25 | | | |
| 2. Composition / information on ingredients | | | | |
| Ingredients | CAS No. | Classification | Weight % | |
| Water | 7732-18-5 | | 50-100 | |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 | |
| Wetting agent | | | < 1 | |
| 3. Hazards identification | | | | |
| This preparation is flammable and reacts violently with strong oxidizers. | | | | |
| 4. First aid measures | | | | |
| Eyes contact | Rinse with plenty of water for 5 minutes. | | | |
| Skin contact | Wash with water. | | | |
| Inhalation | Fresh air. | | | |
| Ingestion | Rinse mouth with water. | | | |
| For any medical advice take along this material safety data sheet. | | | | |
| 5. Fire fighting measures | | | | |
| Extinguishing media | Water, dry powder, carbon dioxide. | | | |
| Special fire fighting precautions | None. | | | |
| Hazardous combustion products | Carbon dioxide, carbon monoxide | | | |
| 6. Accidental release measures | | | | |
| Remove sources of ignition. No smoking. Remove spills with towels. | | | | |
| 7. Handling and storage | | | | |
| Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking. | | | | |
| 8. Exposure controls / personal protection | | | | |
| No special technical measures. No personal protective equipment needed. | | | | |
| Normal work hygiene practices needed. | | | | |
| Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m ³ | | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL

Date July 1997

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**Océ Cleaner O, Part No. 1055452****9. Physical and chemical properties**

| | | | |
|---------------------------------|---------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol %* | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 * | Melting point (°C) | N.A. |
| Solubility in water | M iscible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR: Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

Treść tego arkusza danych dotyczących bezpieczeństwa podlega wykluczeniu odpowiedzialności (patrz 'Arkusze danych dotyczących bezpieczeństwa' na stronie 158) do tego rozdziału.

EPA ENERGY STAR®

Wprowadzenie

Firma Océ-Technologies B.V. przystąpiła do programu ENERGY STAR® - amerykańskiego programu Agencji Ochrony Środowiska (EPA). Celem programu ENERGY STAR® jest promocja produkcji i marketingu urządzeń energooszczędnych, mająca na celu potencjalne zmniejszenie zanieczyszczenia pochodzącego ze spalania.

Wykorzystanie wymienionych poniżej funkcji zarządzania energią powoduje oszczędność energii, co pomaga zapobiegać zanieczyszczeniu powietrza przez urządzenia produkujące elektryczność oraz zmniejsza koszt użytkownika ponoszony przez użytkownika.

Jako partner programu ENERGY STAR® firma Océ-Technologies B.V. stwierdziła, że urządzenie Océ VarioPrint 2090 odpowiada wytycznym dotyczącym efektywnego wykorzystania energii określonym w normach programu ENERGY STAR®.

Aby uzyskać dane dotyczące poboru mocy, należy zapoznać się z arkuszem danych dotyczących bezpieczeństwa zamieszczonym w niniejszym podręczniku.

Informacje dotyczące wyboru trybów oszczędzania energii zawarte są w podręczniku konfiguracji i konserwacji urządzenia Océ VarioPrint 2090.

Cechy

Kryteria programu ENERGY STAR® obejmują następujące elementy.

Dwa tryby oszczędzania energii:

■ tryb oszczędzania energii

Urządzenie Océ VarioPrint 2090 automatycznie przechodzi w tryb oszczędzania energii po 15 minutach od wykonania ostatniego zadania. Domyślny czas włączenia trybu oszczędzania energii może

być regulowany przez operatora głównego (w zakresie 1-240 minut). Czas powrotu z tego trybu do gotowości wykonania następnej kopii/wydruku wynosi 38 sekund.

- **Tryb czuwania**

Urządzenie Océ VarioPrint 2090 automatycznie przechodzi w tryb czuwania po 90 minutach od wykonania ostatniego zadania. Domyślny czas włączenia trybu czuwania może być regulowany przez operatora głównego (w zakresie 1-240 minut).

Jeśli domyślny czas włączenia trybu oszczędzania energii, o którym jest mowa powyżej, (15 minut) lub trybu czuwania (90 minut) jest niedogodny, operator główny może powiększyć ten czas do 240 minut. Zaleca się, aby ustalenie domyślnego czasu odpowiedniego dla danego środowiska pracy odbyło się przez zmianę ustawienia o 30 minut i testowanie każdego z tych ustawień przez co najmniej tydzień. Tylko w przypadku gdy limit czasu czuwania 240 minut powoduje utrudnienia w danym środowisku pracy, operator główny może wyłączyć funkcję przechodzenia urządzenia w tryb czuwania.

- **Automatyczne kopiowanie dwustronne**

Wykorzystanie obu stron arkusza zmniejsza koszty nośnika, krajowy pobór energii i ilość utylizowanego papieru. Dlatego ustawieniem domyślnym w urządzeniu Océ VarioPrint 2090 jest automatyczne kopiowanie dwustronne.

- **Papier ekologiczny**

Korzystne dla środowiska jest również stosowanie papieru ekologicznego. Urządzenie Océ VarioPrint 2090 zaprojektowano z myślą o wykorzystaniu papieru ekologicznego. Informacje dotyczące zalecanych typów papieru z surowców wtórnych można uzyskać od lokalnego przedstawicielstwa firmy Océ lub w centrali firmy Océ (Océ-Technologies B.V.) w Venlo, Holandia.



Nazwa ENERGY STAR® jest znakiem zastrzeżonym w Stanach Zjednoczonych.

Capítulo 12

Informações de segurança



Instruções para uma utilização segura

Os produtos concebidos pela Océ foram testados de acordo com as mais exigentes normas de segurança internacionais. Para garantir a segurança na utilização destes produtos, é essencial que sejam cumpridas as seguintes regras:

Manutenção

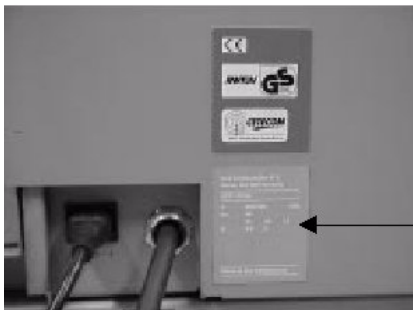
- Não retire parafusos dos painéis fixos.
- Não efectue actividades de manutenção, excepto quando se trata dos componentes e materiais de manutenção referidos neste manual.
- Não derrame líquidos sobre a impressora.
- Utilize os materiais de manutenção e quaisquer outros unicamente para o fim a que se destinam.
- Mantenha-os fora do alcance das crianças.
- Não misture agentes de limpeza ou outras substâncias.
- Para evitar riscos, todas e quaisquer modificações no equipamento da Océ são estritamente reservadas ao pessoal devidamente qualificado e formado da assistência da Océ.

Ligação

- Não desloque a máquina sozinho; contacte a Assistência Técnica.
- Se, por alguma razão, tiver de mudar a localização da máquina, certifique-se de que o cabo de alimentação tem a capacidade de corrente adequada. Consulte a folha de dados de segurança do Océ VarioPrint 2090, neste anexo, onde encontrará informações sobre a corrente máxima.
- Não faça pontes nos fusíveis ou disjuntores.
- Não utilize uma extensão para ligar a máquina.
- Recomendamos que ligue apenas produtos que satisfazem as normas (inter)nacionais relativas à segurança dos produtos e a interferências de frequência de rádio, e que utilize um cabo de ligação especificado pela Océ.
- Este equipamento não foi concebido para ser ligado a um sistema de alimentação IT.
(Um sistema de alimentação IT é uma rede eléctrica em que o neutro não está ligado à terra).
- Para equipamento ligado a uma tomada de parede: coloque a máquina perto de uma tomada de fácil acesso.
- Para equipamento com ligação fixa ao quadro de electricidade: o dispositivo para desligar a corrente deve estar facilmente acessível.

Ligação à corrente eléctrica

Nunca ligue a máquina a uma tomada com tensão diferente da indicada na etiqueta de indicação da corrente. A etiqueta de especificações eléctricas encontra-se na parte posterior da máquina, do lado direito da entrada do cabo de alimentação; consulte a figura em baixo. Se for necessário ligar a máquina a uma rede com tensão diferente, contacte a Assistência a Clientes Océ.



[12] Localização da etiqueta de especificações eléctricas

Cabo de alimentação

A máquina é ligada à corrente através de um cabo de alimentação amovível. Não utilize um cabo de alimentação diferente do fornecido com a máquina. Se for necessário substituir o cabo de alimentação devido a danos ou a um defeito, contacte a Assistência a clientes para obter um cabo apropriado.

Meio ambiente

- Não tape as aberturas de ventilação da máquina.
- Certifique-se de que a máquina é colocada numa superfície nivelada e suficientemente resistente. Consulte a folha de dados de segurança neste Manual de segurança para obter informações sobre o peso do equipamento.
- Certifique-se de que existe espaço livre suficiente em volta da máquina. Isto torna mais fácil a manutenção.
- Não instale a máquina em divisões sujeitas a vibrações excessivas.
- Não instale a máquina em divisões demasiado pequenas ou com ventilação insuficiente. Consulte a folha de dados de segurança da Océ VarioPrint 2090, neste Manual de segurança, para obter informações sobre as condições mínimas de volume e ventilação da sala.

Arrefecimento da máquina

Para assegurar um fluxo de ar suficiente para o arrefecimento, certifique-se de que o lado esquerdo e toda a parte de trás da máquina estão desimpedidos de obstáculos numa distância mínima de 30 cm.

Resolução de problemas

Cuidado

- Nunca abra as portas frontais da Océ VarioPrint 2090 quando esta estiver em funcionamento, porque ao aceder ao percurso do papel no interior do sistema, pode tocar em peças móveis.
- Ao remover papel encravado da secção A1, pode tocar involuntariamente em duas rodas de borracha que rodam lentamente. Esta situação não é perigosa mas pode surpreendê-lo.
- Quando o sistema estiver em funcionamento, não toque na ranhura ao remover as folhas das bandejas de saída.

Advertências gerais

- Utilize sempre materiais recomendados pela Océ e desenvolvidos para a sua máquina. Os materiais não aprovados pela Océ podem provocar avarias na sua máquina.
- Não utilize a máquina quando ela estiver a emitir sons estranhos. Retire a ficha da tomada de corrente ou desligue a ligação fixa ao quadro de electricidade e contacte a Assistência Técnica da Océ.






folhas de dados de segurança

Introdução

A renúncia seguinte aplica-se a todas as folhas de segurança deste manual. Para questões sobre produtos Océ relacionadas com a saúde, segurança e ambiente, contacte o seu representante Océ; pode localizar a sua morada no último anexo deste manual.

Renúncia

Nas folhas de dados de segurança incluídas neste manual, foram compiladas de forma compacta todas as informações necessárias a uma utilização segura deste produto. Reservamo-nos o direito de rever as folhas de dados de segurança à medida que forem surgindo novas informações. É da responsabilidade do utilizador determinar a capacidade de adaptação destas informações à adopção de precauções de segurança de acordo com as necessidades. É também da sua responsabilidade contactar a empresa para garantir que lhe são enviadas as folhas mais recentemente editadas. Se, e na medida em que, for permitida a limitação de responsabilidade ao abrigo das leis aplicáveis, não aceitamos qualquer responsabilidade por qualquer inexactidão que possa surgir nestas informações.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|---|--|
| Océ-Technologies B.V. | | Number E-750-a-NL Date December 2002 | |
| Model | Océ VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5-A | 5/5- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2.0 kW | | |
| EPA ENERGY STAR® | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{PA} = 32 dB(A) | | In operation L _{PA} = 66 dB(A); impulse L ₁ = 4 dB(A) |
| Sound power level | L _{WA} = 48 dB(A) | | L _{WA} = 78 dB(A); |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | | 0,2 mg/m ³ (0,1 ppm) |
| | Odour Perception Limit for ozone | | 0,04 mg/m ³ (0,02 ppm) |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR® |
|  |  |  |  |

O conteúdo desta folha de dados de segurança é abrangido pela renúncia de responsabilidades (consulte 'folhas de dados de segurança' na página 173) deste capítulo.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2



Océ F11 Toner

1. Product and company identification

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.
 In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

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**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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O conteúdo desta folha de dados de segurança é abrangido pela renúncia de responsabilidades (consulte 'folhas de dados de segurança' na página 173) deste capítulo.

| | | | |
|---|--|---------------------------|--|
| MATERIAL SAFETY DATA SHEET (93/112/EEC and ISO 11014-1) | | Number E-193-c-NL |  |
| | | Date February 2001 | |
| | | Page 2 of 2 | |
| Océ Master, Part Nos. 2985808, 7001233 | | | |
| 9. Physical and chemical properties | | | |
| Appearance and odour dark brown odourless belt | | | |
| Bolling point (°C) | N. | A. | Density (g/cm ³) approx. 1,4 |
| Vapour density (air = 1) | N. | A. | Melting point (°C) N. |
| Solubility in water | I | nsoluble | Evaporation rate (butyl acetate = 1) N.A. |
| Vapour pressure | N. | A. | % Volatile 0 |
| Other characteristics | N.A. | | pH (solution) N.A. |
| 10. Stability and reactivity | | | |
| Thermal decomposition | None at intended use | | |
| Hazardous decomposition products | None at intended use | | |
| Hazardous reaction | None at intended use | | |
| 11. Toxicological information | | | |
| Inhalation | N.A. | | |
| Skin | No adverse health effects are expected. | | |
| Eyes | N.A. | | |
| Ingestion | N.A. | | |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. | | |
| 12. Ecological information | | | |
| This product is not biodegradable. | | | |
| The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected. | | | |
| 13. Disposal considerations | | | |
| With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. | | | |
| 14. Transport information | | | |
| This product is not classified as a dangerous substance according to the international transport regulations. | | | |
| 15. Regulatory information | | | |
| This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product. | | | |
| 16. Other information | | | |
| Use: photoconductor for copiers. | | | |
| Revision of E-193-b July 1997 | | | |
| Modification: Part No added | | | |
| Copyright © 1996 Océ-Technologies B.V. Venlo, NL | | | |

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

O conteúdo desta folha de dados de segurança é abrangido pela renúncia de responsabilidades (consulte 'folhas de dados de segurança' na página 173) deste capítulo.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL

Date July 1997

Page 1 of 2



Océ Cleaner O, Part No. 1055452

1. Product and company identification

Product name Océ Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|--|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 | Melting point (°C) | N.A. |
| Solubility in water | M iscible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

O conteúdo desta folha de dados de segurança é abrangido pela renúncia de responsabilidades (consulte 'folhas de dados de segurança' na página 173) deste capítulo.

EPA ENERGY STAR®

Introdução

A Océ-Technologies B.V. aderiu ao programa ENERGY STAR® da Agência de Protecção Ambiental dos Estados Unidos (EPA). A finalidade do programa ENERGY STAR® é promover o fabrico e a comercialização de equipamentos eficazes a nível de energia, reduzindo assim a poluição potencial provocada pela combustão.

Se utilizar as funções de gestão de energia descritas em seguida, evita o consumo desnecessário de energia, reduzindo assim a poluição atmosférica gerada por centrais eléctricas e poupando nas contas da electricidade.

Na qualidade de ENERGY STAR® Partner, a Océ-Technologies B.V. determinou que a Océ VarioPrint 2090 cumpre as directivas do programa ENERGY STAR® no que se refere à eficácia energética.

Para informações sobre o consumo da máquina, consulte a Folha de dados de segurança do produto incluída neste manual.

Para obter instruções de definição dos modos de economia de energia, consulte o manual de configuração e manutenção da Océ VarioPrint 2090.

Características

Os critérios da ENERGY STAR® abrangem as seguintes funções:

Dois modos de economia de energia:

■ **Modo de economia de energia**

A Océ VarioPrint 2090 entra automaticamente no modo económico 15 minutos após a conclusão do último trabalho. O Operador principal pode ajustar o tempo padrão do modo económico (1- 240 minutos). O tempo de recuperação que decorre até ser possível efectuar novas impressões/cópias é de 38 segundos.

■ **Modo de hibernação**

A Océ VarioPrint 2090 entra automaticamente no modo de hibernação 90 minutos após a conclusão do último trabalho. O Operador principal pode ajustar o tempo padrão do modo de hibernação (1- 240 minutos).

Se os tempos padrão acima mencionados para o modo de economia de energia (15 minutos) ou para o modo de hibernação (90 minutos) causar inconvenientes, o operador principal pode aumentar esses tempos para um máximo de 240 minutos.

É aconselhável determinar os tempos padrão apropriados para o seu tipo de trabalho, alterando a definição em incrementos de 30 minutos e testando cada definição durante um período mínimo de uma semana.

Só se o limite de 240 minutos do modo de hibernação continuar a causar inconvenientes consideráveis, devido ao seu tipo de utilização específico, é que o operador principal pode desactivar o modo de hibernação.

■ **Frente e verso automático**

A utilização de ambos os lados do papel reduz os custos com papel, o consumo de energia nacional e a quantidade de papel que entra no processo de eliminação de resíduos. Por isso, a Océ VarioPrint 2090 está configurada, por defeito, para a impressão automática em frente e verso.

■ **Papel reciclado**

A utilização de papel reciclado também tem vantagens para o ambiente. A Océ VarioPrint 2090 está concebida para a utilização de papel reciclado. Pode pedir a literatura do produto - onde encontra informações sobre os tipos recomendados de papel de cópia/impressão reciclado - à Océ local ou à Sede da Océ (Océ-Technologies B.V.) em Venlo, Holanda.



ENERGY STAR® é uma marca registada dos E.U.A.

Kapitel 13

Säkerhetsinformation



Säkerhetsanvisningar

Océ-konstruerade produkter har testats i enlighet med strängaste internationella säkerhetsstandarder. För att du ska kunna arbeta med dessa produkter på ett säkert sätt är det viktigt att du följer dessa säkerhetsregler:

Underhåll

- Ta inte bort några skruvar från de fasta panelerna.
- Utför inte något underhåll utom för de delar och det underhållsmaterial som nämns i handboken.
- Ställ ingen vätska på maskinen.
- Använd endast underhållsmaterial och annat material till det de är avsedda för.
- Håll underhållsmaterial oåtkomligt för barn.
- Blanda inte rengöringsvätskor eller andra substanser.
- För att undvika risk för faror ska alla modifieringar av Océ-utrustning utföras av kvalificerade och utbildade servicetekniker.

Anslutning

- Flytta inte maskinen själv, utan kontakta kundtjänst.
- Om du av någon anledning måste flytta maskinen själv, försäkra dig om att huvudströmmen har rätt säkringskapacitet. Se säkerhetsdatabladet för Océ VarioPrint 2090 i den här bilagan för information om maximal strömstyrka.
- Förbikoppla inga mekaniska eller elektriska kretsar.
- Använd inte förlängningssladd för att ansluta maskinen.
- Vi rekommenderar att du endast ansluter enheter som motsvarar (inter)nationella standarder för produktsäkerhet och radiofrekvensstörningar, och att du använder anslutningskablar som rekommenderas av Océ.
- Denna utrustning har inte utformats för anslutning till ett strömförsörjningssystem för IT.
(Ett strömförsörjningssystem för IT är ett elektriskt nätverk där återledningssladden (nollan) inte är ansluten till jord).
- För utrustning ansluten via väggkontakt: placera maskinen nära ett lättåtkomligt vägguttag.
- För utrustning ansluten via en fast anslutning till elnätet: den fasta anslutningen fränkopplingsanordning ska vara lättåtkomlig.

Nätanslutning

Anslut aldrig maskinen till en nätspänning som skiljer sig från det värde som anges på etiketten med spänningsinformation. Etiketten med spänningsinformation finns på maskinens baksida till höger om huvudkontakten, enligt bilden nedan. Kontakta Océ Kundtjänst om det är nödvändigt att ansluta till en annan nätspänning.



[13] Placering av etikett med spänningsinformation

Nätkabel

Maskinen är ansluten till elnätet med en löstagbar nätkabel. Använd inte någon annan nätkabel än den som medföljer maskinen. Kontakta Kundtjänst om du behöver byta nätkabel på grund av skador eller fel.

Omgivning

- Blockera inte maskinens ventilationsöppningar.
- Placera maskinen på en plan, vågrät yta som håller för maskinens vikt. Se säkerhetsdatabladet för Océ VarioPrint 2090 i den här handboken för information om utrustningens vikt.
- Se till att det finns gott om utrymme runt maskinen. Detta underlättar underhållet.
- Ställ inte maskinen i rum som utsätts för vibrationer.
- Ställ inte maskinen i rum som är för små och otillräckligt ventilerade. Se säkerhetsdatabladet för Océ VarioPrint 2090 i den här handboken för information om rekommenderat minsta utrymme och ventilation.

Kylning av maskinen

För att tillse att luftflödet är tillräckligt för att kyla maskinen måste vänstra sidan och hela baksidan stå fritt från hinder på ett avstånd av minst 30 cm.

Felhantering

Varning!

- Öppna aldrig framdörrarna på Océ VarioPrint 2090 när maskinen är igång, eftersom du kan råka komma åt rörliga delar i närheten av pappersbanan.
- När du tar bort ett pappersstopp från område A1 kan du av misstag komma åt två gummihjul som snurrar långsamt. Detta är inte farligt, men du kan bli överraskad.
- När systemet är igång ska du inte vidröra utmatningsspringan för kopior när du tar bort ark från utmatningsfacken.

Allmänt

- Använd alltid material som rekommenderas av Océ och som har utformats för just denna Océ-maskin. Material som inte har godkänts av Océ kan orsaka fel i maskinen.
- Använd inte maskinen om det hörs konstiga ljud från den. Avlägsna kontakten från uttaget eller stäng av den fasta anslutningen till elnätet och kontakta Kundtjänst.






Säkerhetsdatablad

Inledning

Ansvarsbegränsningen nedan gäller för alla datablad i den här handboken. Var god kontakta din Océ-leverantör vid frågor om Océ-produkter angående hälsa, säkerhet och miljö. Adressen hittar du i sista bilagan till den här handboken.

Ansvarsbegränsning

Säkerhetsdatabladerna i handboken har sammanställts som en snabbreferens för att produkten ska kunna hanteras på ett säkert sätt. Vi förbehåller oss rätten att uppdatera säkerhetsinformationen när ny information finns tillgänglig. Det är användarens skyldighet att bestämma om informationen är lämplig för vidtagande av nödvändiga säkerhetsåtgärder samt att kontakta företaget för att försäkra sig om att detta är den senaste informationen. Om begränsat ansvar tillåts under gällande lagar, påtar vi oss inget ansvar för eventuella felaktigheter i denna information.

| PRODUCT SAFETY DATA SHEET | |  | |
|---|---|--|---|
| Oc -Technologies B.V. | | Number | E-750-a-NL |
| | | Date | December 2002 |
| Model | Oc  VarioPrint 2090 | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | |
| Dimensions | Width | 2550 mm | |
| | Depth | 800 mm | |
| | Height | 1830 mm | |
| Weight | | 722 kg | |
| Voltage | 230/400 V 3 | 240/415 V 3 | 230-240 V |
| Frequency | 50 Hz | 50 Hz | 50 Hz |
| Current-rated | 5,5/5/-A | 5/5/- A | 10 A |
| Building fuse | 13 A | 13 A | 30 A |
| Power consumption | | | |
| * plug in | 2 W | | |
| * stand by | 525 W | | |
| * operation | 2,0 kW | | |
| EPA ENERGY STAR   | | | |
| * Power consumption, sleep mode | 69 W | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | |
| Safety class | I (IEC 536) Protective earth connection | | |
| Protection class | IP 20 (IEC 529) | | |
| Sound pressure level (at operator position) | Standby L _{pA} = 32 dB(A) | In operation L _{pA} = 66 dB(A); impulse L _i = 4 dB(A) | |
| Sound power level | L _{WA} = 48 dB(A) | L _{WA} = 78 dB(A); | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | |
| Ozone emission | 0,01 mg/min at continuous operation | | |
| Room volume | Recommendation: min. 35 m ³ | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | |
| Use simulation at random operation | Room volume and ventilation as recommended Daily copy volume (much more than average) 16500 A4 Total worktime 8 h | | |
| | Ozone concentrations: | | |
| | - Time weighted average | 0,001 mg/m ³ | (0,0005 ppm) |
| | - Peak | 0,002 mg/m ³ | (0,001 ppm) |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | | |
| | | 0,2 mg/m ³ | (0,1 ppm) |
| | Odour Perception Limit for ozone | | |
| | | 0,04 mg/m ³ | (0,02 ppm) |
| Consumables | Oc  Master (Oc  Material Safety Data Sheet E-193) Oc  F11 Toner (Oc  Material Safety Data Sheet E-212) Oc  Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | |
| CE-Compliance | Approved according to Low Voltage Directive 73/23/EEC | Approved according to EMC Directive 89/336/EEC | EPA ENERGY STAR   |
|  |  |  |  |

F r inneh llet i detta datablad g ller det som st r i ansvarsbegr nsningen (se 'S kerhetsdatablad' p  sidan 187) i det h r kapitlet.

MATERIAL SAFETY DATA SHEET

2001/58/EC and ISO 11014-1)

Number

E-212-b-NL

Date

July 2002

Page

1 of 2

**Océ F11 Toner****1. Product and company identification**

Product name Océ F11 Toner
Packing Polyethylene bottle, contents 0,80 kg
Use of product Ink powder for copiers/printers

Company Océ-Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 2222
 For safety questions contact the Product Safety Coordinator of your local Océ organisation

2. Composition / information on ingredients

| Ingredients-Name | CAS No./EC No. | EC-Symbol, R-Phrases | Weight % |
|------------------|-----------------------|----------------------|----------|
| Amorphous silica | 68611-44-9/271-893-4 | none | < 1 |
| Carbon black | 1333-86-4 / 215-609-9 | none | 1-5 |
| Phenoxy resin | PMN P-95-461 | none | 10-25 |
| Iron oxide | 1317-61-9/215-277-5 | none | 25-50 |
| Polyester resins | 170831-75-1/ polymer | none | 25-50 |

3. Hazards identification

The product is not classified as a dangerous preparation according to Directive 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations. To our knowledge, with due observance of the recommended exposure limits and of normal hygiene these products present no health hazard in normal use.

In a toner dust cloud the formation of an explosive dust-air mixture is possible. Toner dust may cause discomfort for the eyes and respiratory tract, in the same manner as inert nuisance dust.

4. First aid measures

Eyes contact Rinse with plenty of water.
Skin contact Wash with cold water and soap.
Inhalation Clean nose, mouth, throat. Cough up. Fresh air.
Ingestion Rinse mouth with water. If large quantity swallowed seek medical advice.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam.
Special fire fighting protective equipment N.A. (= Not Applicable)
Combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Avoid breathing dust. Do not wash away into sewer. Spills can be cleaned with a vacuum cleaner or a damp rag. Avoid formation of dust.

7. Handling and storage

Keep bottle tightly closed to prevent dust formation. Handle carefully. Avoid breathing dust.
 Room ventilation: see operator manual or safety data sheet for the copier/printer.
 No special technical measures for storage.
 Directions for use: see toner label and operator manual of the copier/printer.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Industrial hygiene: after skin contact wash with cold water and soap.
 ACGIH Threshold Limit Value are 10 mg/m³ for inhalable particulate and 3 mg/m³ for respirable particulate.
 TLV for * amorphous silicon dioxide 10 mg/m³
 * carbon black 3,5 mg/m³

MATERIAL SAFETY DATA SHEET

(2001/58/EC and ISO 11014-1)

Number E-212-b-NL

Date July 2002

Page 2 of 2

**Océ F11 Toner****9. Physical and chemical properties**

| | | |
|--|---|---------------|
| Explosion limits (dust explosion) LEL approx. 60 g/m ³ UEL U | Bulk density (kg/m ³) | approx. 1000 |
| Appearance and odour bl ack powder, faint odour | Ignition temperature (°C) | U (= unknown) |
| Boiling point (°C) N. A. | Softening point (°C) ap | prox. 50 |
| Solubility in water l nsoluble | Evaporation rate (butyl acetate = 1) | N.A. |
| Vapour pressure N. A. | % Volatile | 0 |
| Other characteristics N.A. | pH (solution) | N.A. |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable |
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | Hazardous decomposition does not occur under normal conditions. |

11. Toxicological information

| | |
|---------------------|---|
| Inhalation | * At high concentration in air the powder may cause discomfort of upper respiratory system. |
| Skin | * No adverse health effects are expected. |
| Eyes | * Dust may cause discomfort in the same manner as nuisance dust. |
| Ingestion | * Considered relatively harmless. |
| Mutagenicity | No mutagenicity detected in Ames test. |
| | * These statements are based on toxicological literature on the ingredients of this product and test results of similar products. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental effects are expected.

13. Disposal considerations

Pack waste dustproof to prevent dusting. With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration. Do not throw in open fire, in order to prevent the risk of a dust explosion.
Waste code according to Decision 2001/118/EC: 080318 (= toner waste not classified as hazardous waste).

14. Transport information

This product is not classified as dangerous substance according to the international transport regulations: IMDG (sea), ADR (road), RID (rail), ICAQ/IATA (air).

15. Regulatory information

None

16. Other information

Complete revision of E-212-a dated September 1997, in accordance with Directive 2001/58/EC.

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För innehållet i detta datablad gäller det som står i ansvarsbegränsningen (se 'Säkerhetsdatablad' på sidan 187) i det här kapitlet.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

2 of 2

**Oc  Master, Part Nos. 2985808, 7001233****9. Physical and chemical properties**

| | | | | | | |
|--------------------------|---------------------------|----------|--|--------------------------------------|------|-------------|
| Appearance and odour | dark brown odourless belt | | | Density (g/cm ³) | | approx. 1,4 |
| Boiling point (°C) | N. | A. | | Melting point (°C) | N. | A. |
| Vapour density (air = 1) | N. | A. | | Evaporation rate (butyl acetate = 1) | N.A. | 0 |
| Solubility in water | I. | nsoluble | | % Volatile | | N.A. |
| Vapour pressure | N. | A. | | pH (solution) | | N.A. |
| Other characteristics | | N.A. | | | | |

10. Stability and reactivity

| | |
|----------------------------------|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous decomposition products | None at intended use |
| Hazardous reaction | None at intended use |

11. Toxicological information

| | |
|--------------|--|
| Inhalation | N.A. |
| Skin | No adverse health effects are expected. |
| Eyes | N.A. |
| Ingestion | N.A. |
| Mutagenicity | No mutagenicity detected in Ames test. None of the ingredients is listed as mutagenic or carcinogenic. |

12. Ecological information

This product is not biodegradable.
The ingredients are not classified as ecologically hazardous. No adverse environmental aspects are expected.

13. Disposal considerations

With due observance of local laws and regulations, dispose of by burial in a sanitary landfill or incineration.

14. Transport information

This product is not classified as a dangerous substance according to the international transport regulations.

15. Regulatory information

This product is an article and contains no hazardous substances. Therefore, indications of special risks or safety advice on the packing are not prescribed for this product.

16. Other information

Use: photoconductor for copiers.
Revision of E-193-b July 1997
Modification: Part No added

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MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number

E-193-c-NL

Date

February 2001

Page

1 of 2

**Océ Master, Part Nos. 2985808, 7001233****1. Product and company identification**

Product name Océ Master, Part Nos. 2985808, 7001233
Packing Cardboard box

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|----------------|------------|----------------|----------|
| Polyester film | 25038-59-9 | | 90-100 |
| Resins | | | 1-5 |
| Pigments | | | 1-5 |
| Aluminium | 7429-90-5 | | < 1 |

3. Hazards identification

To our knowledge this product presents no health hazard in normal use.

4. First aid measures

Eyes contact Not Applicable(=N.A.)
Skin contact N.A.
Inhalation N.A.
Ingestion N.A.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Flash point (°C) N.A.
Explosion limits LEL N.A. UEL N.A.
Ignition temperature (°C) N.A.
Extinguishing media Dry chemical, carbon dioxide, water spray (fog), foam
Special fire fighting precautions N.A.
Hazardous products of decomposition N.A.

6. Accidental release measures

N.A.

7. Handling and storage

No special technical measures for storage.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
No special work hygiene practices needed.

För innehållet i detta datablad gäller det som står i ansvarsbegränsningen (se 'Säkerhetsdatablad' på sidan 187) i det här kapitlet.

MATERIAL SAFETY DATA SHEET

(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 1 of 2



Oc  Cleaner O, Part No. 1055452

1. Product and company identification

Product name Oc  Cleaner O, Part No. 1055452
Packing Polyethylene bottle, contents 100 ml
Company Oc -Technologies B.V.
Address St. Urbanusweg 43 P.O. Box 101 5900 MA Venlo the Netherlands
Telephone +31 77 359 21 64 (extension product safety coordinator)
Telefax +31 77 359 54 25

2. Composition / information on ingredients

| Ingredients | CAS No. | Classification | Weight % |
|--------------------|-----------|----------------|----------|
| Water | 7732-18-5 | | 50-100 |
| Iso-propyl alcohol | 67-63-0 | F; R11 | 10-25 |
| Wetting agent | | | < 1 |

3. Hazards identification

This preparation is flammable and reacts violently with strong oxidizers.

4. First aid measures

Eyes contact Rinse with plenty of water for 5 minutes.
Skin contact Wash with water.
Inhalation Fresh air.
Ingestion Rinse mouth with water.

For any medical advice take along this material safety data sheet.

5. Fire fighting measures

Extinguishing media Water, dry powder, carbon dioxide.
Special fire fighting precautions None.
Hazardous combustion products Carbon dioxide, carbon monoxide

6. Accidental release measures

Remove sources of ignition. No smoking. Remove spills with towels.

7. Handling and storage

Keep container tightly closed. Keep away from hot surfaces, strong oxidizers and open fire or sparks. No smoking.

8. Exposure controls / personal protection

No special technical measures. No personal protective equipment needed.
 Normal work hygiene practices needed.
 Threshold Limit Value/Occupational Exposure Limit for Isopropyl alcohol = 980 mg/m³

MATERIAL SAFETY DATA SHEET
(93/112/EEC and ISO 11014-1)

Number E-145-c-NL
Date July 1997
Page 2 of 2



Océ Cleaner O, Part No. 1055452

9. Physical and chemical properties

| | | | |
|---------------------------------|----------------------------------|---|---------|
| Explosion limits | LEL 2,3 vol %*, UEL 12,7 vol % * | Flash point (°C) | 29 |
| Appearance and odour | colourless liquid, mild odour | Ignition temperature (°C) | 400 * |
| Boiling point (°C) | 82 | Density (g/cm³) (water=1) | 0,95 |
| Vapour density (air = 1) | 1,05 | Melting point (°C) | N.A. |
| Solubility in water | M isible | Evaporation rate (butyl acetate = 1) | 2,8 * |
| Vapour pressure | 43 mbar at 20 °C * | % Volatile | > 99 |
| Other characteristics | N.A.(= Not Applicable) | pH (solution) | neutral |

* values for isopropyl alcohol

10. Stability and reactivity

| | |
|---|----------------------|
| Thermal decomposition | None at intended use |
| Hazardous reaction | None at intended use |
| Hazardous decomposition products | None at intended use |

11. Toxicological information

| | |
|-------------------|---|
| Inhalation | Relatively harmless |
| Skin | Relatively harmless |
| Eyes | Pain, redness. Isopropyl alcohol causes a mild transient effect to rabbit eyes. |
| Ingestion | Relatively harmless |

12. Ecological information

Isopropyl alcohol has a low acute toxicity to aquatic and terrestrial organisms. No information on chronic ecotoxicity is available. Isopropyl alcohol does not tend to bioaccumulate.

13. Disposal considerations

Waste liquid and used towels moistened with Océ Cleaner O are flammable. Dispose of in accordance with local laws and regulations.

14. Transport information

This product is classified as a flammable liquid according to the international transport regulations.
IMO: Class 3.3; P.G.:III RID/ADR : Class 3,31c; P.G.:III
ICAO/IATA-DGR: Class 3; P.G.:III UN-No: 1987

15. Regulatory information

According to the European Directives 67/548/EEC and 88/379/EEC for the classification, packaging and labelling of dangerous substances and preparations, this product is classified as a flammable liquid. Isopropyl alcohol: Annex 1, Index No. 603-003-00-0, EEC No. 200-661-7

Labelling information: Flammable

16. Other information

Use: cleaner for optical parts.
Room ventilation: see operator manual or safety data sheet for the copier.
Revision of E-145-b-NL dated July 1996.
Modification: Company name changed.

För innehållet i detta datablad gäller det som står i ansvarsbegränsningen (se 'Säkerhetsdatablad' på sidan 187) i det här kapitlet.

EPA ENERGY STAR®

Introduktion

Océ-Technologies B.V. har gått med i ENERGY STAR®-programmet från amerikanska EPA (Environmental Protection Agency). Avsikten med ENERGY STAR®-programmet är att främja tillverkning och försäljning av energieffektiv utrustning för att minska förbränningsrelaterad miljöförstöring.

Om energihanteringsfunktionerna nedan används kan man förebygga onödig energiförbrukning, vilket leder till såväl minskade luftföroreningar från elkraftverk som lägre elkostnader.

Som ENERGY STAR®-partner har Océ-Technologies B.V. kontrollerat att Océ VarioPrint 2090 uppfyller ENERGY STAR®-riktlinjerna för energibesparing.

Du kan se information om strömförbrukningen i produktsäkerhetsdatabladet i den här säkerhetshandboken.

Läs om hur du ställer in energisparfunktionerna i Konfigurations- och underhållshandboken för Océ VarioPrint 2090.

Funktioner

ENERGY STAR®-kriterierna inkluderar följande funktioner.

Två energisparlägen:

■ **Energisparläge**

Océ VarioPrint 2090 går automatiskt in i energisparläge 15 minuter efter det att det sista jobbet avslutats. Huvudoperatören kan justera energisparlägets standardtid (1-240 minuter). Återhämtningstiden innan nästa kopia/utskrift kan göras är 38 sekunder.

■ **Viloläge**

Océ VarioPrint 2090 går automatiskt in i viloläge 90 minuter efter det att det sista jobbet avslutats. Huvudoperatören kan justera vilolägets standardtid (1-240 minuter).

Om inte ovan nämnda standardtider för energisparläge (15 minuter) eller viloläge (90 minuter) är lämpliga, kan huvudoperatören utöka standardtiderna upp till maximalt 240 minuter.

Vi föreslår att du fastställer lämpliga standardtider för ditt arbetsmönster genom att ändra inställningen i 30-minuterssteg och testa varje inställning under minst en vecka.

Huvudoperatören kan endast inaktivera viloläget om denna begränsning på 240 minuter orsakar många problem på grund av ert speciella arbetsmönster.

■ **Automatisk duplex**

Genom att använda båda sidorna på papperet kan du hålla nere papperskostnader, den nationella energiförbrukningen och mängden papper för återvinning. Av den anledningen har Océ VarioPrint 2090 som standard ställts in för automatisk dubbelsidig kopiering.

■ **Återanvänt papper**

Användningen av återanvänt papper främjar också miljön. Océ VarioPrint 2090 har konstruerats för att använda återanvänt papper. Information om rekommenderade typer av återvunnet kopiator/skrivarpapper kan fås från det lokala Océ-kontoret eller från Océ's huvudkontor (Océ-Technologies B.V.) i Venlo, Nederländerna.



ENERGY STAR® är ett amerikanskt varumärke.

Chapter 14

Safety information



Instructions for safe use

Océ designed products have been tested in accordance with the strictest international safety standards. To help assure safety while working with these products it is important that you observe the following safety rules:

Maintenance

- Do not remove any screws from fixed panels.
- Do not carry out maintenance activities except for the parts and maintenance materials mentioned in this manual.
- Do not place any liquids on the machine.
- Use maintenance materials or other materials for their original purpose only.
- Keep maintenance materials away from children.
- Do not mix cleaning fluids or other substances.
- To avoid the risk of introducing hazards, all modifications to Océ equipment are strictly reserved to properly qualified and trained service technicians.

Connection

- Do not move the machine yourself, but contact your Customer Service.
- If for some reason you have to move the machine yourself, please make sure that the mains power point has the right fuse capacity. See the Océ VarioPrint 2090 safety data sheet in this appendix for information about maximum current.
- Do not bridge any mechanical or electrical circuit breakers.
- Do not use an extension lead to connect the machine.
- It is recommended to connect only those products which meet the (inter)national product safety and radio frequency interference standards, and to use an attachment cable as specified by Océ.
- This equipment has not been designed for connection to an IT power system.
(An IT power system is a voltage network in which the neutral wire is not connected to earth).
- For equipment connected via a wall socket: locate the machine close to a wall socket that is easily accessible.
- For equipment connected via a fixed connection to the electricity grid: the disconnect service in the fixed connection should be easily accessible.

Mains connection

Never connect the machine to a mains voltage deviating from the value as stated on the power-marking label. The power-marking label can be found at the back of the machine on the right-hand side of the mains entrance, see figure below. If connection to a different mains voltage is required, contact Océ Customer Service.



[14] Location of the power marking label

Mains connection cable

The machine is connected with a detachable mains connection cable to the mains. Do not use a different mains connection cable as supplied with the machine. When replacement of the mains connection cable is necessary because of damage or defect, contact Customer Service for proper replacement.

Surroundings

- Do not block the ventilation openings of the machine.
- Ensure that the machine is placed on a level, horizontal surface of sufficient strength. See the Océ VarioPrint 2090 safety data sheet in this Safety manual for information about the weight of the equipment.
- Ensure there is sufficient space around the machine. This facilitates maintenance.
- Do not place the machine in rooms which are subject to excessive vibration.
- Do not place the machine in rooms which are too small and insufficiently ventilated. See the Océ VarioPrint 2090 safety data sheet in this Safety manual for information about the recommended minimum room volume and ventilation.

Machine cooling

To guarantee sufficient air flow for cooling purposes, take care that the leftside and full length of the back of the machine are free of obstacles over a distance of at least 12 inches.

Error handling

Caution

- Never open the front doors of the Océ VarioPrint 2090 when the machine is running, because when you access the paper path inside the system, you may touch some moving parts.
- When you remove a paper jam from section A1, you may accidentally touch two rubber wheels that slowly rotate. This situation is not dangerous, but it may surprise you.
- If the system is running, do not touch the copy exit slit when you remove sheets from the output trays.

General

- Always use materials recommended by Océ and developed for this Océ machine. Materials not approved by Océ may result in faults in your machine.
- Do not use the machine when it is emitting unusual sounds. Remove the plug from the power socket or switch off the fixed connection to the electricity grid and contact Customer Service.




Safety data sheets

Introduction

The disclaimer below is valid for all safety data sheets in this manual. For questions about Océ products regarding health, safety and environment, please contact your Océ organization; you can find the address in the last appendix of this manual.

Disclaimer

The safety data sheets in this manual have been compiled to the best of our knowledge as a compact guide to safe handling of this product. We reserve the right to revise safety data sheets as new information becomes available. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary and to contact the company to make sure that the sheet is the latest one issued. If and in so far as limitation of liability is permitted under the applicable laws, we do not accept liability for any inaccuracy that may occur in this information.

| PRODUCT SAFETY DATA SHEET | |  | | | |
|---|---|---|--|---|-------|
| Océ-USA, Inc. | | Number E-750-a-US Date December 2002 | | | |
| Model | Océ VarioPrint 2090 | | | | |
| Description | Electrostatic digital copier/printer, console model, plain paper, organic photoconductive belt, powder toner, automatic duplexing | | | | |
| Process speed | 85 A4 prints/min or 42 A3 prints/min | | | | |
| Dimensions | Width | 2550 mm | | | |
| | Depth | 800 mm | | | |
| | Height | 1830 mm | | | |
| Weight | | 722 kg | | | |
| Voltage | 208 V 3 | 240/120 V 3 | 240 V 3 | 240 V | 208 V |
| Frequency | 60 Hz | 60 Hz | 60 Hz | 60 Hz | 60 Hz |
| Current-rated | 6.5/5.5/8.5 A | 5.5/5/7.5 A | 5.5/5/- A | 10 A | 11 A |
| Building fuse | 20 A | 20 A | 15 A | 30 A | 10 A |
| Power consumption | | | | | |
| * plug in | 2 W | | | | |
| * stand by | 525 W | | | | |
| * operation | 2,0 kW | | | | |
| EPA ENERGY STAR® | | | | | |
| * Power consumption, sleep mode | 69 W | | | | |
| * Power consumption, low power | 362 W : recovery time 38 s | | | | |
| Mains connection | Cable with plug/cable with fixed connection and separation switch | | | | |
| Safety class | I (IEC 536) Protective earth connection | | | | |
| Protection class | IP 20 (IEC 529) | | | | |
| Sound pressure level (at operator position) | Standby L _{pA} = 32 dB(A) | | In operation L _{pA} = 66 dB(A); impulse L _i = 4 dB(A) | | |
| Sound power level | L _{WA} = 48 dB(A) | | L _{WA} = 78 dB(A); | | |
| Radio interference | Complies with Directive 89/336/EEC and FCC rules and regulations, part 15 Class A. | | | | |
| Radiation | Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH) | | | | |
| Heat emission | Standby 525 W; in operation 2,0 kW | | | | |
| Ozone emission | 0,01 mg/min at continuous operation | | | | |
| Room volume | Recommendation: min. 35 m ³ | | | | |
| Room ventilation | Recommendation: min. 17,5 m ³ /h (natural ventilation) For heat evacuation extra ventilation may be necessary. | | | | |
| Use simulation at random operation | Room volume and ventilation as recommended | | | | |
| | Daily copy volume (much more than average) | 16500 A4 | | | |
| | Total worktime | 8 h | | | |
| | Ozone concentrations: | | | | |
| | - Time weighted average | 0,001 mg/m ³ | (0.0005 ppm) | | |
| | - Peak | 0,002 mg/m ³ | (0.001 ppm) | | |
| | Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone | 0,2 mg/m ³ | (0,1 ppm) | | |
| | Odour Perception Limit for ozone | 0,04 mg/m ³ | (0,02 ppm) | | |
| Consumables | Océ Master (Océ Material Safety Data Sheet E-193) Océ F11 Toner (Océ Material Safety Data Sheet E-212) Océ Copying Materials This apparatus is suitable for processing recycling paper which complies with the requirements of EN 12281. | | | | |
| Additional safety information | The ozone filter does not have to be replaced for keeping the ozone concentration in the workplace below 0,04 mg/m ³ (the life of the filter equals that of the apparatus). | | | | |
| Listed according to standard UL 1950 and CAN/CSA-C22.2 No.950 | | EPA ENERGY STAR® | | | |
|  | | LISTED 927F INFORMATION TECHNOLOGY EQUIPMENT E 69871 | |  | |

The content of this safety data sheet is subject to the disclaimer of liability (see 'Safety data sheets' on page 201) of this chapter.

EPA ENERGY STAR®

Introduction

Océ-Technologies B.V. has joined the ENERGY STAR® Program of the United States Environmental Protection Agency (EPA). The purpose of the ENERGY STAR® Program is to promote the manufacturing and marketing of energy-efficient equipment, thereby potentially reducing combustion-related pollution.

Using the energy management features outlined below prevents unnecessary power consumption, which helps to prevent air pollution from electricity generating plants and saves money on your utility bills.

As an ENERGY STAR® Partner, Océ-Technologies B.V. has determined that the Océ VarioPrint 2090 meets the ENERGY STAR® guidelines for energy efficiency.

Read the Product Safety Data Sheet in this safety manual for power consumption data.

Read the Océ VarioPrint 2090 Configuration and maintenance manual how to set the energy save modes.

Features

The ENERGY STAR® Criteria include the following features:

Two energy save modes:

- **Low power mode**

The Océ VarioPrint 2090 automatically enters the low power mode 15 minutes after completion of the last job. The Key operator can adjust the low power mode default time (1 - 240 minutes). The recovery time before the next copy/print can be made is 38 seconds.

- **Sleep mode**

The Océ VarioPrint 2090 automatically enters sleep mode 90 minutes after completion of the last job. The Key operator can adjust the sleep mode default time (1 - 240 minutes).

If the above mentioned default times for the low power mode (15 minutes) or sleep mode (90 minutes) cause inconvenience, the key operator can increase the default times to a maximum of 240 minutes.

It is suggested that you determine the appropriate default times for your work pattern by changing the setting in steps of 30 minutes and testing each setting for at least one week.

If the sleep mode default time limit of 240 minutes still causes sizable inconvenience, due to your particular work pattern, the Key operator can disable the sleep mode.

- **Automatic duplex**

Using both sides of paper reduces paper costs, national energy consumption and the amount of paper in the waste disposal process. Therefore, the Océ VarioPrint 2090 is default set for automatic duplex copying.

- **Recycled paper**

The use of recycled paper also benefits the environment. The Océ VarioPrint 2090 is designed to use recycled paper. Product literature on recommended types of recycled copy/print paper can be obtained from your local Océ company or Océ Headquarters (Océ-Technologies B.V.) in Venlo, the Netherlands.



ENERGY STAR® is a U.S. registered mark.

Chapter 15

Miscellaneous



Addresses of local Océ organisations

| | |
|--|---|
| Océ-Australia Ltd. P.O. Box 363 Ferntree Gully MDCVIC 3165 Australia | Océ-Italia S.p.A. Strada Padana Superiore 2/B 20063 Cernusco sul Naviglio (MI) Italia |
| Océ-Österreich GmbH Postfach 95 1233 Vienna Austria | Océ Systems (Malaysia Sdn. Bhd.) #3.01, Level 3, Wisma Academy Lot 4A, Jalan 19/1 46300 Petalig Jaya Malaysia |
| Océ-Belgium N.V./S.A. Avenue J. Bordetlaan 32 1140 Brussels Belgium | Océ-Nederland B.V. P.O.Box 800 5201 AV 's-Hertogenbosch The Netherlands |
| Océ-Brasil Comércio e Industria Ltda. Caixa Postal 3187 01060-970 Sao Paulo, SP Brazil | Océ Norge A/S Postboks 53, Grefsen 0409 Oslo 4 Norway |
| Océ-Canada Inc. 4711 Yonge Street, Suite 1100 Toronto, Ontario M2N 6K8 Canada | Océ-Poland Ltd. ul. Lopuszaska 53 02-232 Warszawa Poland |
| Océ Office Equipment (Beijing) Co Ltd. Xu Mu Cheng Chaoyang District Beijing 100028 China | Océ-Lima Mayer S.A. Av. José Gomes Ferreira, 11 Ed. Atlas II Miraflores 1495 Algés Portugal |
| Océ-Ceská republika s.r.o. Hanusova 18 14021 Praha 4 Pankrác, Czech Republic | Océ (Far East) Pte. Ltd./ Océ (Singapore) Pte. Ltd., #03-00 Wisma Gulab 190 MacPherson Road Singapore 348548 |

| | |
|---|---|
| Océ-Danmark A.S. Kornmarksvej 6 DK 2605 Brøndby Denmark | Océ España SA Business Park MAS BLAU C/Osona2, 2-3a Planta 08820 El Prat del Llobregat (Barcelona) Spain |
| Océ-France S.A. 32, Avenue du Pavé Neuf, 93161 Noisy-le-grand, Cedex France | Océ-Svenska AB P.O.box 1231 S-164 28 Kista Sweden |
| Océ-Deutschland GmbH Postfach 101454 4330 Mülheim an der Ruhr (13) Deutschland | Océ-Schweiz AG Sägereistrasse 29 CH8152 Glattbrugg Switzerland |
| Océ (Hong Kong China) Ltd. 12/F 1202 The Lee Gardens 33 Hysan Avenue, Causeway Bay Hong Kong | Océ (Thailand) Ltd. 16th Floor, B.B. Building 54 Asoke Road, Sukhumvit 21 Bangkok 10110 Thailand |
| Océ-Hungária Kft. P.O.B. 237 1241 Budapest Hungary | Océ-USA Inc. 5450 North Cumberland Av. Chicago, Ill. 60656 U.S.A. |
| Océ-U.K. Ltd. Langston Road Loughton, Essex IG10 3SL United Kingdom | Océ Ireland Ltd. 3006 Lake Drive Citywest Business Campus Saggarl Co. Dublin Ireland |
| Océ Finland OY P.O. Box 163 FIN-00181 Finland | OPS (South Africa) (PTY) Ltd. P.O. Box 629 Rivonia 2128 South Africa |
| Océ Japan Corporation 3-25-1, Nishishinbashi Minato-Ku 105-0003 Tokyo Japan | |



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