

Collégien, July 29th, 2019

Dear Valued Customer,

PSA – Produits Sanitaires Aéronefs had proactively completed all the necessary filing in order to continuously supply you with our Phenothrin Aircraft Cabin Insecticide, in Europe, in accordance with the transitional measures set up in the article 89(3) of the **Biocidal Product Regulation (BPR) EU No 528/2012**.

We can now confirm that our “Non-Flammable Aircraft Insecticide Phenothrin” (‘NFAI Phenothrin’) has been approved, on March 27th, 2019, as Biocidal Product, PT 18, according to the EU No 528/2012 regulation.

This approval, officially received from the reference member state, UK Health and Safety Executive (HSE), under the authorisation number UK-2019-1199, makes PSA **‘NFAI Phenothrin’, the first and only 1R-Trans-Phenothrin non-flammable aircraft insecticide to be approved in Europe**. It also confirms PSA’s expertise and leadership in the development of compliant products for disinsection for the aviation industry.

The formulation of the approved ‘NFAI Phenothrin’ remains the same as the Non-Flammable Aircraft Insecticide supplied to you over last years - There is no change to its safety, quality or efficacy.

However, to comply with the requirements of the Classification, Packaging and Labelling (CLP) Regulation (EC) No 1272/2008 and to the EU No 528/2012, **the label has to be updated** for each local official required languages to include extra warnings, instructions and additional information such as the national authorisation number received from concerned member states and national poison center contacts.

As a direct consequence, **new approved labels with a nice light blue differentiating color are being developed**, and progressively implemented in production (see picture below). PSA is taking the opportunity to modernise the look of its emblematic yellow aerosol can, with also, a new translucent cap. For some groups of countries, PSA may use multi-layered peel back labels.



In the coming months, depending on the country, your stock consumption and orders, we shall supply you with our new NFAI Phenothrin aerosol, easily recognisable and identifiable, as per the above picture.

We remind you that this product is to be used by trained professionals. Instructions and warnings should always be read before using insecticide products.

As you are aware, **adequate aircraft disinsection is necessary**, not only to protect your crew members and your passengers but also to eliminate the risk of transfer of endemic infected mosquitoes from their original living environment to another one. In this domain, the recommendations of the World Health Organisation (WHO) set the world recognised standard.

By choosing to use PSA NFAI Phenothrin aerosol insecticides for the disinsection of your aircrafts, you fully comply with WHO recommendations and have no need to use any other recommended optional method for disinsection.

You will find on the following pages, some complementary information.

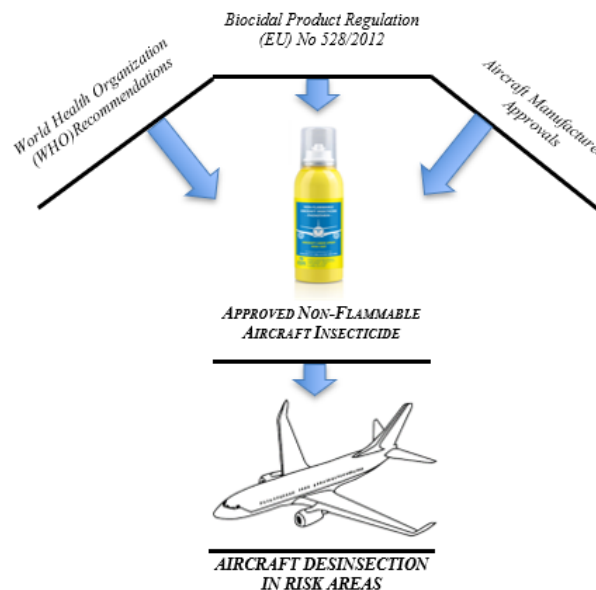
Should you have any question or request on the product you buy from us and this change, **your usual contacts in PSA sales and customer support services remain available to help you**; Alternatively you can contact us by sending a mail to: sales@psa-paris.com

PSA Technical and Regulatory team are also available for any questions regarding EU Biocide regulations, active ingredients, the choice of disinsection methods, recommendations applicable for the countries to and from which you are operating flights, risks in the event of non-compliance with procedures and the training of your crews.

Yours sincerely.

PSA team.

PSA APPROVED NON-FLAMMABLE AIRCRAFT INSECTICIDE PHENOTHRIN 'NFAI PHENOTHRIN'



A Biocidal Product must be registered and approved to be available in a country of the European Union market. Compliance with the EU BPR No 528/2012, IATA, WHO (World Health Organisation) recommendations, and with Aircraft Manufacturers specifications, is a safe guarantee required by the Aviation Sector.

NON-FLAMMABLE AIRCRAFT INSECTICIDE & BPR (BIOCIDAL PRODUCT REGULATION) EU N° 528/2012

In order for a biocidal product to obtain an approval, the product's manufacturer must, amongst other things, prove the efficacy, safety and quality of its product. Multiple factors are analysed such as toxicology data on humans, the environment and also flammability (as per recommendations from IATA, the aircraft insecticide must be non-flammable). A detailed investigation on active ingredients and propellant gas is also performed in order to assure that the formulation of the product is compliant and compatible for use in aircraft.

PSA 'NFAI Phenothrin' approval can be consulted on the ECHA website, at the following link:

<https://echa.europa.eu/information-on-chemicals/biocidal-products/-/disbp/factsheet/UK-0013475-0000/authorisationid>

or on UK Authorised Biocidal Product Database at the following link:

<https://webcommunities.hse.gov.uk/connect.ti/pesticides/view?objectId=6020>

The countries shown as "authorised" on the ECHA website are those having already filed, to date, on the ECHA site, their recognition of PSA approval, as per the standard 'mutual recognition' process (Belgium,

France, Germany, Luxemburg, Netherlands, Spain, Portugal, UK...). It will be regularly updated as soon as a country grants their national authorisation.

If you are using an aircraft cabin insecticide product that is not visible on the ECHA website, there is a good chance that this product is not approved for sale or use in the EU.

NON-FLAMMABLE AIRCRAFT INSECTICIDE & WHO RECOMMENDATIONS

Disinsection is not only necessary to protect your crew members and your passengers during their flight, but more importantly to eliminate the risk of transfer of endemic infected mosquitoes from their original living environment to another one. It avoids their expansion around the world and the possible mutations into new and more endangering and resistant species.

The recommendations of the WHO for aerosol disinsection, are based on either permethrin or phenothrin with 2% concentration and a specific rate related to the volume of the cabin/holds, with a short and efficient knock-down effect on any living insect: The insects are immediately killed by the contact with the microscopic aerial particles of the specified aerosol.

Permethrin In EU: Given the concentration requested by the WHO (2%), an aircraft insecticide with Permethrin cannot be registered in Europe (EU) for sale: it exceeds the toxicity level set in the EU regulations.

For this reason, PSA has developed an approved Non-Flammable Aircraft Insecticide with 1R-Trans-Phenothrin as active ingredient.

APPROVED PSA NFAI PHENOTHTRIN FORMATS & REFERENCES

Our approved non-flammable aircraft insecticide will still be available in the following formats, for which actualised pricing conditions will be also applied:

| Product Name | Ref. Designation |
|----------------------|--|
| NFAI-100T one shot | INSECT PHEN #203 T/P - 100 G - ONE-SHOT CLIP |
| NFAI-100T multi-shot | INSECT PHEN #203 T/N - 100 G - MULTI-SHOT |
| NFAI-60T one shot | INSECT PHEN #222 T/P - 60 G - ONE-SHOT CLIP |
| NFAI-60T multi-shot | INSECT PHEN #222 T/N - 60 G - MULTI-SHOT |
| NFAI-40T one shot | INSECT PHEN #222 AT - 40 G - ONE-SHOT |
| NFAI-30T multi-shot | INSECT PHEN #210 T/N - 30 G - MULTI-SHOT |

THE EXAMPLE OF THE UK – ENGLISH LABEL

PSA new yellow and light blue labels includes extra warnings, instructions and information as specified by the CLP Regulation and the EU No 528/2012, as well as required pictograms and additional information coming from other standards (Aerosol...).

When sold in another country, the same information will be indicated in the adequate required language (German for Germany; Spanish for Spain; etc.)

We recommend that you pay attention to all warnings and instructions and ensure they are fully understood and followed by your personal.

WARNING: Pressurised container. May burst if heated. Very toxic to aquatic life with long lasting effects. **PRECAUTION:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not piece of burn, even after use. Avoid release to the environment. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. Contains a fluorinated greenhouse gas: HFC-134a, 0.024 kg/0.034 l equivalent CO2. Global Warming Potential of the mixture = 1430, 17.7% by mass of the contents are flammable. Do not store at temperatures in excess of 40°C. For use only as an aircraft insecticide. Protect from frost. The contents are flammable. Do not store at temperatures in excess of 40°C. For use only as an aircraft insecticide. Protect from frost. The COSHH (Control of Substances Hazardous to Health) Regulations 2002 (as amended) apply to the use of this product at work. Do not contaminate foodstuffs, feeding utensils or food contact surfaces. This material and its container must be disposed of in a safe way, in dry, cool, well ventilated area. Use brooms safely. Emergency, phone number 112. Skin contact: Wash thoroughly with plenty of water and soap - remove contaminated clothing immediately. If irritation occurs, contact the poison centre. Eye contact: Rinse immediately with plenty of water by holding eyelids open during 10 min. If contact lenses: Rinse immediately and remove contact lenses. If it is not contact indicated and continue rinsing during 10 min. If irritation persists or if vision disorders occur, get medical advice. In contact with the mouth: Rinse with plenty of water and contact the poison centre or call 112. Ingestion: If swallowed, seek medical advice immediately and show this container or label. Inhalation: Remove person to fresh air, do not leave the victim alone and seek medical aid. Cleaning of treated aircraft must only be undertaken with specialised products that do not require discharge of liquid waste to drains and local STP. When cleaning equipment (brushes, cloths etc.) have been used, they must be disposed of as solid waste and must not be rinsed out for re-use. Do not discharge unused product on to the ground, into water courses, pipes (sinks, toilets...) or down drains. Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

*Populaire: HFC 134a, EU No 517/2014. Authorised use for the PSA product.



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Net Weight: 100g e



NON FLAMMABLE
AIRCRAFT INSECTICIDE
- PHENOTHRIN -

AIRCRAFT CABIN AEROSOL
NFAI-100T

EU N° 528/2012 APPROVED (PT18)
Boeing D6-7127 / CML 14-010B / AMS 1450A

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COMPLIANT WITH INTERNATIONAL HEALTH REGULATIONS (IHR) AND THE WORLD HEALTH ORGANIZATION RECOMMENDATIONS (WHO)

UK-2019-1199 - UFI: A650-Q0UW-F00Q-DRTT

INSTRUCTIONS: Always read the label/leaflet before use and follow all instructions. Extermination of targeted insects should be attempted in infested areas. Please refer to your onboard manual for the number of cans to be used for each specific aircraft. Only one application per flight. If more than one application per day is required, each application should be applied by a different member of the aircrew. Wash hands and exposed skin before meals and after use. Air recirculation system should be set at normal flow. Air conditioning system should be switched off. The product is not intended to have a residual effect and so no preventive action is required. Follow integrated management methods such as combination of chemical control methods, physical and other public health measures, taking into account local specificities (climatic conditions, target species, conditions of use, etc.). To be applied either as a one-shot or multi-shot aerosol, at a rate of 55 g product/100 m³ cabin volume. Open overhead and side-wall lockers, toilets and wardrobes. **One-shot[®] Aerosol** product is released completely, in one continuous spray. Suitable for cabin and large cargo hold treatment. Press hard on the tab until it locks. After activation (tab locked), the canister must be held at the lowest part of its body in a vertical position until complete discharge. Walk through the cabin spraying at a rate of 1 step or 1 row of seats per 2 seconds (equivalent to an average of 1 g per second), holding the aerosol vertically by its body, at arm's length at shoulder level. Direct the spray towards the ceiling and slightly behind the user until it is completely empty. **Multi-shot[®] Aerosol**, multiple-use nozzle suitable to complete treatment of small areas: cockpit, crew rest and small bulk treatment. Press the actuator, holding the aerosol vertically. Keep pressed until the right quantity is released, spraying at an average discharge rate of 1g per second. Press the actuator 3 to 4 seconds, per 10 m³ of cabin volume. The "one-shot" aerosol product must be the main product for use in the cabin. The "multi-shot" product can only be used to complete smaller treatments. Shelf life 2 years.

FOR PROFESSIONAL USE ONLY

The serial number shall be entered on the Aircraft General Declaration

REF: #203 T/P one-shot #203 T/N multi-shot

1R-trans phenothrin 2% w/w - CAS n° 26046-85-5

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