

Safety Data Sheet

Section 1: Chemical Identification

Chemical Name: IAA (Indole-3-Acetic Acid)
Alternative Name: 3-Indoleacetic acid; IAA; Heteroauxin
Catalog Number: I-110-100; I-110-250; I-110-500; I-110-1; I-110-2.5; I-110-5; I-110-10
Recommended use: Plant growth regulator . This product is not for use in humans. It is intended for research purposes only.
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Section 2: Hazardous Information

GHS Classification
Acute toxicity, oral (Category 4)

GHS Label Elements, including Precautionary statements



WARNING

Hazard Statements:
H302: Harmful if swallowed

Precautionary Statements:
P264: Wash skin thoroughly after handling
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth

OSHA Hazards

Not available

Target Organs

Not available

Potential Health Effects

- Eye: May cause eye irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Ingestion: May cause digestive tract irritation.
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Chronic: Specific developmental abnormalities (musculoskeletal system).
Tumorigenic (appearance of tumor types may not be spontaneous.)

HMIS Classification

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical hazards:	0

NFPA Rating

Health Hazard:	1
Fire:	0
Reactivity Hazard:	0

Section 3: Composition/Information on Ingredients

Identity:	IAA (Indole-3-Acetic Acid)
Synonyms:	3-Indoleacetic acid; IAA; Heteroauxin
CAS number:	87-51-4
Molecular Formula:	$C_{10}H_9NO_2$
Molecular Weight:	175.18 g/mol

Section 4: First Aid Measures

- Inhalation:** If inhaled, remove to fresh air, immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- Skin:** In case of contact, wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.
- Eye:** Immediately rinse out with water for > 15 minutes. Assure adequate flushing by separating the eyelids with fingers.
- Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

Suitable extinguishing media: Water, dry chemical powder or foam.

Specific hazards arising from the chemical: During a fire, highly toxic gases may be generated by thermal decomposition or combustion – Carbon oxides, nitrogen oxides.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water to cool fire-exposed containers.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Evacuate and ventilate the area. Wear respirator and protective clothing. Avoid dust formation. Avoid breathing vapor, mist or gas.

Environmental precautions: Do not let product enter drain.

Methods and materials for containment and cleaning up: Sweep up dry, place in bag and hold for waste disposal. Wash spill site after material pick-up is complete. Avoid generation of dusts.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes and clothing. Avoid prolonged, repeated exposure. Handle material with suitable protection.

Conditions for safe storage, including any incompatibilities: Store tightly at -20°C, desiccated. Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Appropriate engineering controls: Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment (PPE)

Eye/Face Protection: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin Protection: Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other Protective Clothing or Equipment: Wear appropriate protective clothing to prevent exposure.

Section 9: Physical and Chemical Properties

Appearance:	Rose-colored to brownish powder
Odour:	Not available
Odour Threshold:	Not available
pH:	Not available
Melting Point:	167°C
Freezing Point:	Not available
Boiling Point/Range:	Not available
Flash Point:	Not available
Evaporation Rate:	Not available
Flammability:	Not available
Lower Explosion Limit:	Not Available
Upper Explosion Limit:	Not available
Vapour Pressure:	Not available
Vapour Density:	Not available
Relative Density:	Not available
Solubility:	Soluble in water and ethanol
Partition Coefficient: <i>n</i>-octanol/water	Not available
Auto-Ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available

Section 10: Stability and Reactivity Data

Reactivity: Not available.

Chemical stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: Not available.

Conditions to avoid: Not available.

Incompatible materials: Not available.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions - Carbon oxides and nitrogen oxides.

Section 11: Toxicological Information

Acute toxicity:

Oral: LD₅₀ (Rat) > 500 mg/kg
IPR: LD₅₀ (Mouse) = 150 mg/kg

Skin corrosion/irritation:

Not available

Respiratory or skin sensitization:

No sensitizing effects

Germ cell mutagenicity:

May cause possible mutagen effects.

Carcinogenicity:

Possible carcinogen.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

May cause reproductive effects.

Aspiration hazard:

Not available.

Likely routes of exposure:

Respiratory organs, mouth, skin, and eyes.

Symptoms of exposure:

Not available

Additional information:

RTECS - NL 3150000

Section 12: Ecological Information

Toxicity:

Not available

Ecotoxicity:

Not available

Persistence and degradability:

Not available.

Bioaccumulative potential:

Not available.

Mobility in soil:

Not available.

Other adverse effects:

Not available.

Section 13: Disposal Considerations

Disposal should be handled by an approved waste disposal facility.

Section 14: Transport Information

US Department of Transportation (DOT)

This material is considered to be non-hazardous for transport.

International Maritime Dangerous Goods (IMDG)

This material is considered to be non-hazardous for transport.

International Air Transport Association (IATA)

This material is considered to be non-hazardous for transport.

Section 15: Regulatory Information

International Regulations

On TSCA January 2004 Inventory Tape. On DSL, Supplement to Canada Gazette, Part I, January 26, 1991. On ENCS, Japanese Gazette, February 21, 2002. On AICS, Australina Inventory of Chemical Substances, June 1996 Ed. On ECL. On PICCS. On ASIA-PAC.

Various

Exposure Limit: OEL=MAK; NOHS 1974: HZD 83421; NIS 1; TNF 5; NOS 1; TNE 27

SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA Hazard

Massachusetts Right To Know Components:

No Components Listed

Pennsylvania Right To Know Components:

Indol-3-ylacetic acid 87-51-4

CAS-No.

New Jersey Right To Know Components:

Indol-3-ylacetic acid 87-51-4

CAS-No.

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

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