



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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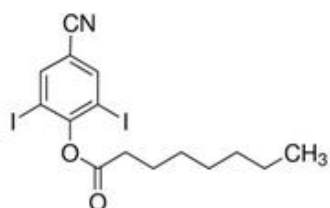
1. Chemical Product Identification

Common Name: Ioxynil Octanoate 95% TC

Molecular Formula: C₁₅H₁₇I₂NO₂

Molecular Weight: 497.1

Structural Formula:



Chemical Name: 4-cyano-2,6-diiodophenyl octanoate

Form: Crystals

Color: Grayish yellow

Odor: Mild odour

CAS No.: 3861-47-0

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Ioxynil Octanoate	3861-47-0	95
Other ingredients	---	5

3. Hazards Identification

TOXICITY: May be fatal if swallowed, inhaled or absorbed through the skin. May cause



skin and eye irritation. May cause sensitization from prolonged skin contact. May cause reproductive/development damage from repeated oral exposure. May cause organ damage from repeated oral exposure. Avoid skin and eye contact and avoid inhalation of vapour or spray mist.

ECOTOXICITY: Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Harmful to terrestrial invertebrates.

4. First Aid Measures

Eyes: Flush with running water for at least 15 minutes. If irritation persists get medical attention.

Skin: Wash thoroughly with soap and water. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. If breathing stops administer artificial respiration and get medical attention immediately. If breathing is difficult refer to a physician.

Ingestion: Do not induce vomiting. Inhalation of vomited product can cause severe pulmonary complications. Get medical attention.

5. Fire-Fighting Measures

Extinguishing media Suitable: Dry chemical, water spray, foam, carbon dioxide.

Unusual fire/explosion hazards: Flashback may occur along vapour trail. Hazardous thermal Iodide compounds, cyanide and nitrogen oxides

(de)composition products: Protection of fire-fighters: Self-contained breathing apparatus and total protection required in enclosed areas.

6. Accidental Release Measures

Personal precautions: Wear suitable protective clothing.

Environmental precautions: Do not discharge into drains or the environment.

Methods for cleaning up: Keep away from: open flame, sparks and heat. Absorb remainder in sand or other inert material. Dispose of in an authorised waste collecting point.

7. Handling And Storage

Handling: Avoid contact with skin and eyes. Ventilation required. Keep away from: sparks, open flame and direct sunlight.

Storage: Keep in a dry, cool and well-ventilated place. Keep out of the reach of children



Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

8. Exposure Controls/Personal Protection

Engineering measures: Ventilation required.

Hygiene measures: When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Personal protective equipment:

Respiratory system: Respiratory protection is not required if good ventilation is maintained.

Skin and body: Wear suitable protective clothing. Chemical resistant boots.

Hands: Chemical resistant gloves.

Eyes: Safety goggles or face shield.

9. Physical and Chemical Properties

Appearance: Grayish yellow crystals

Water content: $\leq 0.5\%$

Acidity (as H₂SO₄): $\leq 0.3\%$

Insoluble in acetone: $\leq 0.5\%$

Melting point: 56.6°C

Boiling point: Decomposes before boiling

Bulk density: 1.81 g/ml

Partition Coefficient: $\log P = 6.0$ (at pH 7, 20°C)

Vapour pressure: 0.00009 mPa (25°C)

Solubility: 0.03 mg/l in water (20°C); In organic solvents: 1000 g/l in acetone, 111.8 g/l in methanol, 1000 g/l in ethyl acetate, 1000 g/l in xylene (all at 20°C).

10. Stability and Reactivity

Stability: Not subject to polymerization.

Materials to avoid: Oxidizing agents, acids, and alkali.

Hazardous reactions: None Hazardous decomposition Iodide compounds, cyanide and nitrogen oxides.

11. Toxicological Information



Acute oral LD50 for rat: 165 a.i.mg/kg

Acute dermal LD50 for rat: >2000 a.i.mg/kg

Inhalation LC50 (4 h) for rat: >4.63 a.i.mg/L

Skin irritation: Non-irritating to skin (rabbits)

Eye irritation: Irritating to eyes (rabbits)

Skin sensitization: May cause allergic skin reaction (guinea pigs)

12. Ecological And Ecotoxicological Information

Effect on birds: moderate toxicity to birds, acute oral LD50 for Japanese quail is 677 a.i.mg/kg.

Effect on fish: high toxicity to fish, acute 96 hour LC50 is 0.043 a.i.mg/L.

Effect on aquatic invertebrates: high toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is 0.011 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, oral acute 48 hour LD50 is >3.27 a.i.µg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC50 is >60 a.i.mg/kg.

13. Disposal Considerations

Methods of disposal: Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information



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applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.