



SAFETY DATA SHEET IOTRIL 240 EC Herbicide

Section 1: Identification of the Substance and Supplier

Product name : IOTRIL 240 EC
Chemical name of active Ingredient(s): 4-cyano-2,6 diiodophenyl octanoate
Supplier: ADAMA New Zealand Limited
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O. Box 1799, Nelson New Zealand.
+64 3 543 8275 Fax: +64 3 543 8274
Telephone
Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

Hazard Classifications: 3.1C, 6.1C, 6.3A, 6.4A, 6.5B, 6.8B, 6.9B, 9.1A, 9.3C

Most important hazards: **FLAMMABLE**
Warning – flammable liquid – keep away from naked flame
TOXICITY
Warning -
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.

Section 3. Composition/Information on Ingredients

Substance/preparation	Preparation				
<u>Information on hazardous ingredients *</u>					
Common name	CAS No.	%	EC Number	Symbol	R- phrases
loxynil octanoate	3861-47-0	29-33	223-375-4	Xn,N	R22-50/53-63
Xylene	1330-20-7	56-61	215-535-7	XN	R10-20/21-38

- Occupational Exposure Limit(s), if available, are listed in section 8

Section 4: First-Aid Measures

Effects and symptoms:

Inhalation: Vapours: Headaches, dizziness, nausea.
Ingestion: Nausea, headaches, cramps, vomiting
Skin contact: May cause sensitization by skin contact
Eye contact: Irritating to eyes.

First-aid measures:

Inhalation: Remove victim from area of exposure. Wash off remaining material with plenty of water.
Ingestion: Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention. Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.

Skin contact: Remove contaminated clothing. Wash away remainder with water and soap.
Eye contact: Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.



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Notes to a physician: There is no specific antidote. Treat symptomatically and give supportive therapy.
Protection of first-aiders: Use appropriate protection (see section 8).

Section 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 (de)composition products: Iodide compounds, cyanide and nitrogen oxides
Protection of fire-fighters: Self-contained breathing apparatus and total protection required in enclosed areas.

Section 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.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Ventilation required. Keep away from: sparks, open flame and direct sunlight.
Storage: Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs and under lock and key.
As a Class 9 Substance with Ecotoxicity Classifications storage of Iotril Herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. See Safety Data Sheet for further information

Packaging materials suitable: Resin-lined metal drums.

Section 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.

Occupational Exposure Limits

Common name: Ioxynil octanoate
Not Established

Common name: Xylene
TVL (USA) 100 ppm
"MAK" (Germany) 100 ppm
OEL (United Kingdom) 100 ppm

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.



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Section 9: Physical and Chemical Properties

Physical state:	Liquid
Colour:	Brown
Odour:	Aromatic (solvent)
Boiling point:	155-181°C
Density:	1.04 ± 0.002 g/mL @ 20°C
Vapour pressure:	<0.9e-4mPa @ 45°C (loxynil octanoate)
Solubility in water:	miscible
Octanol/water partition Coefficient:	log P = 6.12 (loxynil octanoate)
pH:	3.5 - 5
Flammability:	Flammable
Flash Point:	31°C (Xylene)
Auto ignition temperature:	450°C (Xylene)
Explosion properties:	Xylene (vapours) may form explosive mixture with air.
Lower explosion limit:	1 volume %
Upper explosion limit:	7 volume %
Oxidation properties:	Not oxidizing

Section 10: Stability and Reactivity

Stability:	Not subject to polymerization.
Materials to avoid:	Oxidizing agents, acids, and alkali
Hazardous reactions :	None
Hazardous decomposition products:	Iodide compounds, cyanide and nitrogen oxides.

Section 11. Toxicological Information

Preparation

Acute toxicity - Oral:	LD ₅₀ (rat) ~1,000mg/kg
Acute toxicity - Dermal:	LD ₅₀ (rat) > 2,000 mg/kg
Acute toxicity – Inhalation:	LC ₅₀ (rat)~ 4.36 mg/L (4 hours)
Skin irritation:	Moderately irritating (rabbit).
Eye irritation:	Severely irritating (rabbit).
Sensitization :	Moderate sensitizer (guinea-pig)
Common name:	loxynil
Carcinogenicity:	EPA : Not classified EU : Not classified IARC : Not classified
Mutagenicity:	Not mutagenic (loxynil (ISO))
Reproduction toxicity:	Repr. Cat 3
Other information:	Teratogenicity - NOAEL (rat): 12 mg/kg/day. (Maternal) 4 mg/kg/day(Fetal)

Section 12: Ecological Information

Common name:	loxynil octanoate
Mobility:	Soil – not mobile No risk of underground water contamination
Persistence/degradability:	Soil The product is not persistent. Half-life time (t _{1/2}): ~ 10 days Degradation is primarily via: hydrolysis and microorganisms. The product is poorly biodegradable.



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Water

DT₅₀: (water) = < 6 days (pH 7,9)
DT₅₀: (water/sediment) ~ 3.8 days

Bioaccumulative potential: Ecotoxicity:

BCF: = 116 - 120

Fish

LC₅₀ (96 hours) bluegill sunfish (*lepomis macrochirus*) = 0.024 mg/L
NOEC (21 days) rainbow trout (*oncorhynchus mykiss*) = 0.021 mg/L
= 0.0034 mg/L

Daphnia magna

EC₅₀ (48 hours) = 0.011 mg/L
NOEC (21 days) = 0.01 mg/L

Algae (*scenedesmus subspicatus*)

EC₅₀ (96 hours) ≥ 10 mg/L

Birds

Pheasants LD₅₀ = 1,000 mg/kg
Mallard duck (*colinus virginianus*) LD₅₀ = 1,200 mg/kg

Bees

Oral LD₅₀ (48 hours) > 4 µg/bee
Contact LD₅₀ (48 hours) > 200 µg/bee
Very toxic to aquatic organisms. Low toxicity: birds, Non toxic: Bees

Section 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.

Section 14: Transport Information

UN Number	1993
Proper shipping name	FLAMMABLE LIQUID N.O.S. (Xylene)
DG Class	3
Packing Group	III
Hazchem Code	3[Y]
Marine Pollutant	Yes
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National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval:

Registered pursuant to the ACVM Act 1997. No P7256
See www.nzfsa.govt.nz/acvm for registration conditions.

Approval pursuant to the HSNO Act 1996, Approval No. HSR000524
See www.ermanz.govt.nz for registration conditions.



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ACUTE TOXIC



FLAMMABLE LIQUID



ECOTOXIC

APPROVED HANDLER

THIS PRODUCT MUST BE UNDER THE CARE OF AN APPROVED HANDLER DURING USE

RECORD KEEPING - Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

TRACKING: THIS PRODUCT MUST BE TRACKED

Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

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