



SAFETY DATA SHEET

ELLIOTRIL™

Date of Issue: 19 September 2011

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Emulsifiable concentrate containing 240 g/litre ioxynil as the octanoate ester

Recommended use: Herbicide

Supplier: Etec Crop Solutions Limited
PO Box 51584
Pakuranga
Auckland

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Flammable -3.1C,
Toxic - 6.1C, 6.3A, 6.4A, 6.5B, 6.8B, 6.9B,
Ecotoxic - 9.1A, 9.3C

Approved Handler Applies
Tracking Required

Required identification Details:

WARNING
FLAMMABLE LIQUID
ECOTOXIC
Keep out of reach of children

TOXIC - This material is harmful if swallowed, inhaled or absorbed through the skin.
HARMFUL - May cause eye and skin irritation
May cause sensitization from prolonged skin contact.
Repeated exposure at high doses may cause reproductive damage and may cause organ damage.

Very toxic to aquatic organisms.
Harmful to terrestrial vertebrates.
Very toxic to some plant species – selective herbicide.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

| Common name | CAS No | % |
|-------------------|-----------|----|
| Ioxynil octanoate | 1689-83-4 | 31 |
| Xylene | 1330-20-7 | 62 |
| Inerts | | 7 |

4. FIRST-AID MEASURES

Description of necessary first aid measures: If swallowed do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water.

Effects and symptoms

First-aid measures

Inhalation:

May cause dizziness, headache, sweating, vomiting, weakness and fever. Remove to fresh air. Apply artificial respiration if necessary. Get medical help if breathing difficulty persists.

Ingestion:

Harmful if swallowed. Give a glass or two of water. DO NOT INDUCE VOMITING. Get medical help. Never give anything by mouth to an unconscious person.

Skin contact:

Irritating to skin. Remove contaminated clothing. Wash with soap and water. If irritation persists see a doctor.

Eye contact:

Immediately flush with water for 15 minutes. If irritation persists see a doctor.

Notes to a physician:

Following ingestion, there is burning of the oral mucosa, hyper salivation, stomach cramps, vomiting & diarrhea. Other reported symptoms include convulsions, cerebral depression and mental confusion, with difficulty in speaking. A short period of myotonia is followed by muscular weakness, a general reduction in motor activity, ataxia and inco-ordination and gradual loss of reflexes. In severe cases coma may develop, followed by death. The pulse may be rapid and sometimes irregular with a low blood pressure. Ventricular fibrillation has been reported. Kidney & liver damage have been reported in animal experiments but not so far in man. The only known cases of Phenoxy acid poisoning are those from deliberate ingestion and no poisoning arising occupationally has ever been verified. No antidote is available and treatment should be symptomatic. Gastric lavage with medical charcoal in water is recommended.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

3XE

Flamability

Flammable liquid. Flashpoint 31°C, Auto-ignition temperature 465°C, Vapours form explosive mixtures in air.

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| Extinguishing media : | Chemical foam. |
| Hazardous thermal (de)composition products: | Gases containing nitrogen, nitrous oxide. |
| Protection of fire-fighters: | Wear self contained breathing apparatus, total protection required in enclosed areas. Flashback may occur along vapour trail. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions: | Use appropriate Personal Protection Equipment (as in section 8) during clean up. |
| Environmental precautions: | Contain spill, do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area. |
| Methods for cleaning up: | Soak up with sand, sawdust or other absorbent material, shovel or sweep up and bury in an approved landfill |

7. HANDLING AND STORAGE

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| Handling and Storage: | Store in original container, tightly closed in a locked, dry, well ventilated place away from food or feedstuffs. Keep away from sparks, heat and flames. Keep out of reach of children or animals. |
| Packaging materials: | HDPE Plastic containers. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines Exposure Standards

Not established

Engineering measures

Exposure control measures:

Ventilate enclosed spaces to ensure exposure levels are limited.

Personal Protective Equipment

Detail specifications for equipment:

Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Respiratory system:

Do not inhale spray.

Skin and body:

Avoid contact with skin. Wear long sleeved shirt and long pants.

Hands:

Wear waterproof gloves. May cause sensitisation from prolonged skin contact.

Eyes:

Avoid contact with eyes. Wear safety goggles or face shield.

General hygiene:

Wash hands and face before meals and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State: | Clear, tan to brown liquid with aromatic odour. |
| pH: | 3.5-5.0 |
| Vapour Pressure: | 3.7mmHg @105°C |
| Boiling Point: | 135 °C |
| Freezing/melting point: | N/A |
| Solubility: | Solubility in water: <1ppm |
| Specific gravity or density: | 1.04 @20°C |
| Information for flammable material including: | Flammable liquid. Flashpoint 31°C, Auto-ignition temperature 465°C, Vapours form explosive mixtures in air. |
| Lower and upper flammability limits | Upper 7%, Lower 1%. |
| Flashpoint: | 31°C |
| Octanol/water partition coefficient: | Not Available |
| Explosion properties: | Not Explosive |
| Oxidation properties: | Not an Oxidiser |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under normal conditions |
| Conditions to avoid: | Excessive heat |
| Materials to avoid: | Oxidising agents and strong acids. |
| Hazardous decomposition Products: | Gases containing nitrogen, nitrous oxide when involved in fire. |
| Hazardous polymerization: | Does not occur. |
| Specific Data: | |
| Hazardous reactions : | |

11. TOXICOLOGICAL INFORMATION

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| Acute toxicity – Oral : | Acute Oral LD50 = 1,066 mg/kg (Rat) |
| Acute toxicity - Dermal : | Acute Dermal LD50 = 810mg/kg (Rat) |
| Acute toxicity – Inhalation: | Acute Inhalation LC50 = >5.63mg/litre@ 4 hr(Rat) |
| Skin irritation : | May cause irritation to the skin. |
| Eye irritation: | May cause irritation to the eyes. |
| Sensitization : | May cause sensitisation from prolonged skin contact. |

Chronic toxicity

Ioxynil octanoate was not carcinogenic and not mutagenic in animal studies. Ioxynil octanoate is classified as a category 3 teratogen: - substances which cause concern for man owing to possible teratogenic effects but in respect of which the information is not adequate for making a satisfactory assessment.

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| Other information : | Exposure to high oral doses frequently may cause Target Organ damage. |
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12. ECOLOGICAL INFORMATION

Ecotoxicity

ECOTOXIC

[Data relates to active ingredient]

Soil: Half life in soil is approximately 7 days, not mobile in soil-contamination of ground water is unlikely.

Koc = 639 ml/g. Degraded by hydrolysis and by soil micro organisms.

Aquatic: Very toxic to aquatic organisms. LC50 = 0.061 mg/litre, 96hrs (Bluegill sunfish) and 0.041mg/litre,96 hours

(Rainbow trout). LC 50 = 0.046mg/litre, 48hrs (Daphnia magna) 9.3C DO NOT apply to bodies of water. DO NOT contaminate sewers, drains, dams, creeks or any other waterways with product or empty container. **Avian:** Low toxicity to birds, LD50 = 1,200 mg/kg (Mallard duck) and 170 mg/kg (Bobwhite quail).

Bees: Non toxic to bees LC50 > 100µg/bee.
Harmful to terrestrial vertebrates.

13. DISPOSAL CONSIDERATIONS

Methods of disposal :

Dispose of unwanted product by ensuring that it is used by an alternative applicator according to label directions. Triple rinse container and add to spray tank, burn if circumstances, particularly wind direction, permit, otherwise crush and bury in an approved landfill.

14. TRANSPORT INFORMATION - International transport regulations

UN number: 2903
Class or Division: 6.1
Sub Class: 3b
Packing Group: III
Marine Pollutant: YES
Proper shipping name : **PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S (flashpoint not less than 23°C)**

Other Information:

Maximum quantity: 200 litres
Segregation Requirements: Land Transport Rule: Dangerous Goods 1999 Requires that Class 6.1 is not transported with Classes 1, separate by 3 metres from Class 5.1, 5.2 or use approved segregation device.
Do not load in same container as food.

15. REGULATORY INFORMATION

ACVM Registered Number: P3997
HSNO Approval Code: HSR000524

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 16th December 2005
Revision Date: 20 Sept 2011
Replaces: ES113

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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