



# SAFETY DATA SHEET

## Totril™ Super

Date of Issue: 20 April 2017

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Emulsifiable concentrate containing 250 g/litre ioxynil as the octanoate ester

**Recommended use:** A selective weedkiller for use in onions, garlic and fine turf grass

**Supplier:** Etec Crop Solutions Limited  
PO Box 51584  
Pakuranga  
Auckland

**Emergency telephone number:** Phone 0800 100 325  
0800 Poison (0800 764 766) 24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** 3.1D, 6.1D, 6.4A, 6.5B, 6.8B, 6.9B, 9.1A, 9.3C  
**Required identification Details:** Combustible liquid – keep away from naked flame.  
**HARMFUL**  
May be harmful if swallowed.  
May cause eye irritation.  
May cause sensitisation from prolonged skin contact.  
May cause reproductive/developmental damage from repeated oral exposure.  
May cause target organ damage from repeated oral exposure at high doses.  
Very toxic to aquatic organisms.  
Harmful to terrestrial vertebrates.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Ioxynil octanoate	3861-47-0	25.0
Hydrocarbon solvent	64742-94-5	64.0
Naphthalene (in hydrocarbon solvent)	91-20-3	2.0-4.0
Other ingredients	(Non-hazardous)	0.97

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## 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.

<b>Inhalation:</b>	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.
<b>Ingestion:</b>	Give a glass or two of water. DO NOT INDUCE VOMITING. Get medical help. Never give anything by mouth to an unconscious person.
<b>Skin contact:</b>	Remove contaminated clothing. Wash with soap and water. If irritation persists see a doctor.
<b>Eye contact:</b>	Immediately flush with water for 15 minutes. If irritation persists see a doctor.
<b>Notes to a physician :</b>	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 in coordination 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.

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## 5. FIRE-FIGHTING MEASURES

<b>HAZCHEM Code:</b>	<b>3XE</b>
<b>Flamability</b>	Flammable liquid. Flashpoint 75°C, Auto-ignition temperature 465°C, Vapours form explosive mixtures in air.
<b>Extinguishing media :</b>	Water spray, foam, carbon dioxide (CO <sub>2</sub> ), dry powder, sand.
<b>Hazardous thermal (de)composition products:</b>	Oxides of carbon and nitrogen and compounds of iodine.
<b>Protection of fire-fighters:</b>	Wear self contained breathing apparatus, total protection required in enclosed areas. Flashback may occur along vapour trail.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
<b>Environmental precautions:</b>	Contain spill, do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area.
<b>Methods for cleaning up:</b>	Soak up with sand, sawdust or other absorbent material, shovel or sweep up and bury in an approved landfill

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## 7. HANDLING AND STORAGE

<b>Handling and Storage:</b>	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.
<b>Packaging materials:</b>	HDPE Plastic containers.

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## 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Clear brown liquid with aromatic odour.
<b>pH:</b>	4.8 approx
<b>Vapour Pressure:</b>	0.3 kPa (at 38°C) (hydrocarbon solvent)
<b>Boiling Point:</b>	179 °C – 213 °C (boiling point range of solvent)
<b>Freezing/melting point:</b>	N/A
<b>Solubility:</b>	Emulsifies in water
<b>Specific gravity or density:</b>	1.074 @20°C

**Information for flammable material including:**  
**Lower and upper flammability limits**  
**Flashpoint:**  
**Octanol/water partition coefficient:**  
**Explosion properties:**  
**Oxidation properties:**

Flammable liquid. Auto-ignition temperature >400°C,  
Vapours form explosive mixtures in air.  
Upper 7%, Lower 0.6%.  
75°C  
Not Available  
Not Explosive  
Not an Oxidiser

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions  
**Conditions to avoid:** Excessive heat and sources of ignition.  
**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 :**

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## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity – Oral :** Acute Oral LD50: = 602 mg/kg (Rat)  
**Acute toxicity - Dermal :** Acute Dermal LD50: >2000mg/kg (Rat)  
**Acute toxicity – Inhalation:** Acute Inhalation LC50: >3mg/litre air (Rat) (Technical ioxynil)  
**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.

**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.

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### 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.

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### 14. TRANSPORT INFORMATION - International transport regulations

<b>UN number:</b>	3082
<b>Class or Division:</b>	9
<b>Sub Class:</b>	
<b>Packing Group:</b>	III
<b>Marine Pollutant:</b>	YES
<b>Proper shipping name :</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (Ioxynil), CLASS 9

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### 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	P001643
<b>HSNO Approval Code:</b>	HSR000525

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### 16. OTHER INFORMATION

<b>Additional information:</b>	<b>Original Issue Date:</b> 20 April 2017 <b>Revision Date: Replaces:</b>
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#### **Disclaimer EXCLUSION OF LIABILITY: PLEASE READ**

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