

## GOAL 40WP<sup>®</sup>

Date of Issue: 22 December 2005

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Oxyfluorfen

**Recommended use:** Herbicide

**Supplier:** Elliott Technologies Limited  
45 Kitchener Road  
Pukekohe  
Phone 0800 100 325

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

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** Toxic - 6.3B, 6.4A, 6.9B,  
Ecotoxic - 9.1A, 9.2A  
Approved Handler Applies

**Required identification Details:** HARMFUL  
ECOTOXIC

May cause skin and eye irritation.  
Repeated oral exposure at high doses is believed to cause harm to the liver.

Very toxic to aquatic organisms.  
Very toxic to the soil environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Oxyfluorfen	42874-03-3	40
Inert ingredients		60

### 4. FIRST-AID MEASURES

**Description of necessary first aid measures:**

#### Effects and symptoms

#### First-aid measures

##### **Inhalation:**

Move person to fresh air. If person is not breathing call 111 or an ambulance, and then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc).

Call a poison control center or doctor for treatment advice.

**Ingestion:**

Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person

**Skin contact:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact:**

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**Notes to a physician:**

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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**5. FIRE-FIGHTING MEASURES**

**HAZCHEM Code:**

2XE

**Extinguishing media :**

Fog, CO<sub>2</sub>, dry chemical.

**Hazardous thermal (de)composition products:**

Hydrogen chloride, hydrogen fluoride, nitrogen oxides

**Protection of fire-fighters:**

Remain upwind. Use water spray to cool containers exposed to fire. Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Wear protective clothing and personal protective equipment as described in section 8. Keep unprotected persons and animals out of the area.

**Environmental precautions:**

Keep material out of lakes, streams, ponds and sewer drains

**Methods for cleaning up:**

Dike to confine spill and absorb with a inert materials absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

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**7. HANDLING AND STORAGE**

**Handling:**

Do not handle material near food, feed or drinking water. Keep out of reach of children.

**Storage:**

Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of direct sunlight. Storage must be

generally in accordance with NZS8409 Management of Agrichemicals. . See the HAZNOTE for further information.

**Packaging materials:** Plastic lined Cardboard box

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace Exposure Guidelines

**Workplace exposure standards:** None established

**Exposure Standards outside:  
The workplace:** None established

### Engineering measures

**Exposure control measures:** Provide general and/or local ventilation to control airborne levels below the exposure guidelines.

### Personal Protective Equipment

#### **Detail specifications for equipment:**

**Respiratory system:**

**Skin and body:** Wear long sleeved shirt, long pants.

**Hands:** Use gloves chemically resistant (eg: nitrile or neoprene) when prolonged or frequently repeated contact could occur.

**Eyes:** Use safety glasses.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State: Colour and Odour** Yellow to tan powder with smoky odour

**pH:** 6-8

**Vapour Pressure:** 17 mm Hg @20°C (water)

**Vapour Density:** <1 (Water)

**Boiling Point:** 100°C (Water)

**Freezing/melting point:** 0°C (Water)

**Solubility:** Dispersible

**Specific gravity or density:** 1.17 to 1.19

**Flashpoint:** Not combustible

**Octanol/water partition coefficient:** Not available

**Explosion properties:** Not available

**Oxidation properties:** Not available

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions

**Conditions to avoid:**

**Materials to avoid:** Oxidizing agents, bromine and chromic acid

<b>Hazardous decomposition Products:</b>	Thermal decomposition may yield the following: hydrogen chloride and hydrogen fluoride
<b>Hazardous polymerization:</b>	Not known to occur
<b>Specific Data:</b>	
<b>Hazardous reactions :</b>	None expected

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral :</b>	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. The oral LD <sub>50</sub> >5000 mg/kg (rats)
<b>Acute toxicity - Dermal :</b>	Brief contact is essentially non-irritating to skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD <sub>50</sub> >5000 mg/kg (rabbits).
<b>Acute toxicity – Inhalation:</b>	Aerosol LC <sub>50</sub> >0.39 mg/L for 4 hours (rats) Oxyfluorfen aerosol LC <sub>50</sub> >5.4 mg/L for 4 hours (rats)
<b>Skin irritation :</b>	LD <sub>50</sub> >5000 mg/kg (rabbits)
<b>Eye irritation:</b>	May cause slight temporary eye irritation. Corneal injury is unlikely.
<b>Sensitization :</b>	Not a sensitizer.
<b>Chronic toxicity</b>	
<b>Carcinogenicity:</b>	Oxyfluorfen has caused cancer in laboratory animals when administered at high dose rates. Propylene glycol did not cause cancer in laboratory animals.
<b>Mutagenicity:</b>	For oxyfluorfen and propylene glycol, in-vitro and animal genetic toxicity studies were negative.
<b>Reproduction toxicity:</b>	For oxyfluorfen, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. For propylene glycol, in animal studies, did not interfere with reproduction or fertility.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Fish</b>	LC <sub>50</sub> = 0.41 mg/kg (Rainbow Trout) LC <sub>50</sub> = 0.21 mg/kg (Bluegill Sunfish)
<b>Earthworms</b>	Very toxic
<b>Bees</b>	Non toxic LC <sub>50</sub> > 10,000 ppm
<b>Birds</b>	LD <sub>50</sub> >2,150 mg/kg (Bobwhite quail)
<b>Mobility      Soil</b>	
<b>Water</b>	
<b>Persistence/degradability Soil</b>	Moderately persistent, half-life 30-40 days.
<b>Water</b>	Do not contaminate bodies of water with chemical or empty container.

**Bioaccumulative potential :**

Moderate potential BCF = 1300 (Bluegill sunfish)

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### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal :**

Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction permit, otherwise bury in landfill.

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### 14. TRANSPORT INFORMATION - International transport regulations

**UN number:** 3077  
**Class or Division:** 9  
**Packing Group:** III  
**Marine Pollutant:** Yes  
**Proper shipping name :** ENVIRONMENTALLY HAZARDOUS SOLID N.O.S  
(Contains 40% Oxyfluorfen)

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

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### 15. REGULATORY INFORMATION

**ACVM Registered Number:** P5387  
**HSNO Approval Code:** HSR000542

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### 16. OTHER INFORMATION

**Additional information:**

**Original Issue Date:** 22 December 2005  
**Revision Date:** N/A  
**Replaces:** N/A

#### **EXCLUSION OF LIABILITY: PLEASE READ**

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