

  
**SAFETY DATA SHEET**

**Authority SC<sup>®</sup>**

Date of Issue: 2 December 2008

**1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION**

**Chemical name of active ingredient(s):** Sulfentrazone  
**Recommended use:** Herbicide  
**Supplier:** Elliott Technologies Limited  
PO Box 838  
Pukekohe  
Phone 0800 100 325

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

**2. HAZARDS IDENTIFICATION**

**Hazard Classification:** Toxic - 6.1E, 6.8B, 6.9B,  
Ecotoxic - 9.1A, 9.2A  
May be harmful if swallowed, inhaled or absorbed through the skin.  
Avoid contact with eyes. Slightly irritating to the skin.  
May cause reproductive/developmental damage from repeated oral exposure.  
Presumed to cause organ damage from repeated oral exposure at high doses.  
May cause eye and skin irritation.  
Toxic to fish and aquatic life. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or empty container.  
Very toxic to the soil environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/preparation Information on hazardous ingredients**

Common name	CAS No	%
Sulfentrazone	122836-35-5	40 w.w.

**4. FIRST-AID MEASURES**

**Description of necessary first aid measures:**

**Effects and symptoms**

**First-aid measures**

**Inhalation:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

**Ingestion:** Rinse mouth with water Do not induce vomiting and do not give liquids of any kind to the person. Never give anything by mouth to an unconscious person.. See a medical doctor immediately.

**Skin contact:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

**Eye contact:** Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

**Notes to a physician:**

This product has low inhalation, oral and dermal toxicity. It is mildly irritating to the eyes and slightly irritating to the skin. This product contains a toluene which can produce a severe pneumonitis if aspirated during vomiting. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

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**5. FIRE-FIGHTING MEASURES****HAZCHEM Code:**

3XE

**Extinguishing media :**

Foam, carbon dioxide or dry chemical. Soft stream water fog only if necessary.

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

Carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, hydrogen chloride, hydrogen fluoride.

**Protection of fire-fighters:**

Isolate fire area. Wear full protective clothing and self contained breathing apparatus. Do not breath smoke, gases generated.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:**

Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants ,waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

**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.

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**7. HANDLING AND STORAGE****Handling:**

Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

**Storage:**

Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only.

**Packaging materials:**

Cardboard outer, plastic bag inner.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Workplace Exposure Guidelines****Workplace exposure standards:**

For dust exposure, wear chemical protective goggles or a face shield.

**Exposure Standards outside:**

Not available

**The workplace:****Engineering measures****Exposure control measures:**

Not available

**Personal Protective Equipment****Detail specifications for equipment:**

Not available

**Respiratory system:**

For dust exposures wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides. Respirator use and selection must be based on airborne concentrations.

<b>Skin and body:</b>	Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).
<b>Hands:</b>	Wear chemical protective gloves made of materials such as butyl rubber, nitrile or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.
<b>Eyes:</b>	For dust exposure, wear chemical protective goggles or a face shield.
<b>General hygiene:</b>	Avoid contact with skin and eyes. 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

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Off-white.
<b>Odour:</b>	Faint alcoholic
<b>pH:</b>	5.3 – 6.0 @20°C
<b>Vapour Pressure:</b>	1X10-9 mmHg @ 20°C
<b>Boiling Point:</b>	N/A
<b>Freezing/melting point:</b>	N/A
<b>Solubility:</b>	Disperses
<b>Specific gravity or density:</b>	1.206 @ 20°C
<b>Information for flammable material including:</b>	Non-flammable. May support combustion at elevated temperatures.
<b>Flashpoint:</b>	N/A
<b>Octanol/water partition coefficient:</b>	pH 5      31.1 +/- 0.4 pH 6      9.8 +/- 0.4 pH 9      0.27 +/- 0.1
<b>Explosion properties:</b>	Not Explosive
<b>Oxidation properties:</b>	Not an Oxidiser

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable. Non-flammable. May support combustion at elevated temperatures.
<b>Conditions to avoid:</b>	Excessive heat and fire.
<b>Materials to avoid:</b>	N/A

<b>Hazardous decomposition Products:</b>	Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride, hydrogen fluoride.
<b>Hazardous polymerization:</b>	Will not occur
<b>Specific Data:</b>	
<b>Hazardous reactions :</b>	None

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral : LD<sub>50</sub></b>	2084 mg/kg (rat)
<b>Acute toxicity - Dermal : LD<sub>50</sub></b>	> 2,000 mg/kg (rat)
<b>Acute toxicity – Inhalation: LC<sub>50</sub></b>	> 2.72 mg/l (4 h) (rat)
<b>Skin irritation :</b>	Slightly irritating
<b>Eye irritation:</b>	Non-irritating
<b>Sensitization :</b>	Not a sensitizer
<b>Common name :</b>	Sulfentrazone
<b>Chronic toxicity Carcinogenicity:</b>	No data available for the formulation. Sulfentrazone was not carcinogenic in lifetime feeding studies with laboratory animals, nor was it found to be mutagenic in a battery of tests.
<b>Mutagenicity:</b>	Inhalation of toluene vapors at high doses have also resulted in an increased incidence of malformations and decreased fetal weight in laboratory animals.
<b>Reproduction toxicity:</b>	In a reproduction study, sulfentrazone produced adverse effects on the growth and survival of the offspring, decreased male fertility and oligospermia at 25 mg/kg/day, and 35 mg/kg/day. Sulfentrazone was found to be fetotoxic in oral and dermal developmental toxicity studies; the fetal NOELS were 10 mg/kg/day and 100 mg/kg/day, respectively. At labeled use rates and practices of mixing and applying, expected exposure to farm workers is at least one hundred times lower than the doses that produced effects in laboratory animals. At labeled use rates and practices of mixing and applying, expected exposure to farm workers is at least one hundred times lower than the doses that produced effects in laboratory animals.
<b>Other information :</b>	Chronic exposure to toluene may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage.

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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Sulfentrazone is slightly toxic to fish and aquatic arthropods, with LC <sub>50</sub> values ranging from 60.4 mg/L to > 130 mg/L. Sulfentrazone is stable in soil (half-life = 18 months). In water, sulfentrazone is stable to hydrolysis over the pH range of 5 to 9, however, it will readily undergo photolysis (half-life < 0.5 day). Sulfentrazone has a low affinity for organic matter (K <sub>oc</sub> = 43), but is mobile only in soils with high sand content.
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<b>Bees</b>	Not toxic to bees
<b>Bioaccumulative potential :</b>	The potential for sulfentrazone to bioaccumulate is very low, having a Log Pow of 1.48, and a bioconcentration factor of 1.1 - 2.0.
<b>Ecotoxicity Birds</b>	Sulfentrazone has a very low order of toxicity to upland game birds (oral LD <sub>50</sub> > 2,250 mg/kg).

### 13. DISPOSAL CONSIDERATIONS

<b>Methods of disposal :</b>	Triple rinse container and add residue to spray tank. Submit clean empty container for recycling through Agrecovery. If this is not possible, burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.
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### 14. TRANSPORT INFORMATION - International transport regulations

<b>UN number:</b>	3082
<b>Class or Division:</b>	9
<b>Classification Code:</b>	Environmentally Hazardous Substance. Liquid, N. O. S. (contains 40% sulfentrazone).
<b>Packing Group:</b>	III
<b>Marine Pollutant:</b>	No
<b>Proper shipping name :</b>	N/A
<b>INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):</b>	This material is not a dangerous good as defined by the International Air Transport Association Dangerous Goods Regulations.

### 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	P7852
<b>HSNO Approval Code:</b>	HSR07060

### 16. OTHER INFORMATION

<b>Additional information:</b>	<b>Original Issue Date:</b> <b>Revision Date:</b> N/A <b>Replaces:</b> N/A
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