

Section 1 - Identification of the Material and Supplier

FMC New Zealand Limited
6 Clayton Street
Newmarket, Auckland 1023

24 Hour Medical Emergency: 0800 111 174
Transport Emergency: 0800 387 668
Technical Query & Customer Service: 0800 658 080
(business hours)
www.fmccrop.nz

Chemical nature:

Trade Name: Authority® SC

Product Use: Herbicide

Creation Date: 2 December 2008

This version issued: July, 2020 and is valid for 5 years from this date.

Poisons Information Centre: Phone 0800 764766 from anywhere in New Zealand

Section 2 - Hazards Identification



GHS Signal word: **WARNING, ECOTOXIC**

Hazard classification: 6.1E, 6.8B, 9.1A, 9.2A

HAZARD STATEMENT:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

PREVENTION

P102: Keep out of reach of children

P103: Read label before use.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

RESPONSE

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P391: Collect spillage.

STORAGE

P405: Store locked up.

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	%
Sulfentrazone	122836-35-5	480 g/L

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures

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Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 in New Zealand and is available at all times. Have this SDS with you when you call.

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

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.

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.

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.

Section 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.

Section 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.

Section 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.

Section 8 - Exposure Controls and Personal Protection

Workplace Exposure Guidelines

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

Exposure Standards outside:

The workplace: Not available

Engineering measures

Exposure control measures: Not available

Personal Protective Equipment

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.

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Skin and body: 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).

Hands: 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.

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

General hygiene:

Avoid contact with skin and eyes. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Off-white, liquid
Odour:	Faint alcoholic.
Boiling Point:	Not available.
Freezing/Melting Point:	No data.
Vapour Pressure:	1X10 ⁻⁹ mmHg @ 20°C
Specific Gravity or Density:	1.206 @ 20°C
Water Solubility:	Disperses.
pH:	5.3 – 6.0 @20°C
Information for flammable material including:	Non-flammable. May support combustion at elevated temperatures.
Octanol/water partition coefficient:	pH 5 31.1 +/- 0.4 pH 6 9.8 +/- 0.4 pH 9 0.27 +/- 0.1
Explosion properties:	Not Explosive
Oxidation properties:	Not an Oxidiser

Section 10 - Stability and Reactivity

Stability: Stable. Non-flammable. May support combustion at elevated temperatures.

Conditions to Avoid: Excessive heat and fire.

Materials to avoid: N/A

Hazardous decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride, hydrogen fluoride.

Hazardous polymerization: Will not occur.

Hazardous reactions: None.

Section 11 - Toxicological Information

Acute toxicity – Oral:	LD50 2084 mg/kg (rat)
Acute toxicity - Dermal:	LD50 > 2,000 mg/kg (rat)
Acute toxicity – Inhalation:	LC50 > 2.72 mg/l (4 h) (rat)
Skin irritation:	Slightly irritating.
Eye irritation:	Non-irritating.
Sensitization:	Not a sensitizer.
Common name:	Sulfentrazone.

Chronic toxicity

Reproductive effects: 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.

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Mutagenic effects: Inhalation of toluene vapors at high doses have also resulted in an increased incidence of malformations and decreased fetal weight in laboratory animals.

Carcinogenic effects: 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.

Other Information: Chronic exposure to toluene may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage.

Section 12 - Ecological Information

Ecotoxicity: Sulfentrazone is slightly toxic to fish and aquatic arthropods, with LC50 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 (Koc = 43), but is mobile only in soils with high sand content.

Bees: Not toxic to bees

Bioaccumulative potential: 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.

Ecotoxicity Birds: Sulfentrazone has a very low order of toxicity to upland game birds (oral LD50 > 2,250 mg/kg).

Section 13 - Disposal Considerations

Disposal: 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.

Section 14 - Transport Information

NZS 5433*

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains sulfentrazone)
Class	9
Packing group	III
Matters needing attention for transportation:	Shark 1 and 5 L can be shipped under Limited Quantity provisions in NZS 5433 as a non-dangerous good.

IMDG*

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains sulfentrazone)
Class	9
Packing group	III

IATA*

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains sulfentrazone)
Class	9
Packing group	III

*** Matters needing attention for transportation:** Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification and/or Limited quantity volumes.

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Section 15 - Regulatory Information

ACVM Registered Number: P7852

HSNO Approval Code: HSR07872

Section 16 - Other Information

Date Issued: 5 March 2018

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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