

GENEREX (AUST.) PTY LTD

MATERIAL SAFETY DATA SHEET

Generex (Aust) Pty Ltd
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I IDENTIFICATION

Product Name: Generex Chlorsulfuron Herbicide
Hazchem Code: None
UN No: None Allocated
Dangerous Goods Class: None
Packaging Group: None
Poison Schedule: UNSCH (Fed)
EPG/GTEPG: None
Use: For control of Annual (Wimmera) Ryegrass and certain broadleaf weeds in winter cereal crops.

Physical appearance & Properties:

Appearance & Odour: Off-white tan colour, odourless
Specific gravity: 0.59
Form: Solid (powder granules)
Chemical Family: Sulfonylurea, Group B (by Aust. Standards)

Ingredients:

| <u>Chemical Entity</u> | <u>CAS No:</u> | <u>Proportion %</u> |
|------------------------|----------------|---------------------|
| Chlorsulfuron | 64902-72-3 | 75 |
| Inert Ingredients | | 25 |

II HEALTH HAZARD DATA

Not Classified as Hazardous according to the criteria of NOHS.

Health Effects: Data suggests that this product should present no significant problems to typical persons in normal use. No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe documents.

Acute Effects:

Eye: Irritation (rabbit): Administration of 10mg to rabbit's eye produced very mild temporary conjunctival irritation and slight corneal cloudiness. All effects reversed in 4 days.

Skin: Slight to moderately toxic by contact. Not a primary skin irritant, or a sensitiser.

Inhalation: May irritate the throat but no data available.

Swallowing: Very low toxicity by ingestion.

Other Health Effects: No data is available to confidently predict the effects of overexposure to humans. However based on animal studies, overexposure by inhalation, ingestion, or skin or eye contact may initially include eye irritation with discomfort, tearing, or blurring of vision, or irritation of the upper respiratory passages.

Chronic effects:

Chlorsulfuron: Administration of 0, 100, 500, and 2500 ppm chlorsulfuron to male and female young adult dogs for 6 months produced a no-observable-effect level (NOEL) of 2,500 ppm in the diet. No compound related changes in nutritional, clinical, biochemical, gross or histopathological observations were made. Administration of 0, 100, 500, and 2500 ppm chlorsulfuron to male and female weaning rats for 2 years produced a NOEL of 100 ppm in the diet based on mild to moderate reduction in mean body weights and weight gains in male rats from the higher dose groups.

Oncogenicity studies conducted with male and female mice by dietary administration of 0, 100, 500, and 5,000 ppm chlorsulfuron for 2 years showed no compound-related behavioural, clinical, haematological, gross pathological, or histological abnormalities. Chlorsulfuron was not oncogenic at any level. The overall NOEL was 500 ppm as a body weight reduction occurred in the 5,000 ppm level. The dietary presence of chlorsulfuron at 500 ppm had no adverse effect on the reproduction or lactation performance of young adult rats (3 generation, 2 litters per generation). Not teratogenic in rats at 2,500 ppm or up to 75 mg/kg in rabbits. Not mutagenic in Ames bacterial assay, Chinese Hamster Ovary mammalian cell assay, rat dominants lethal assay, in vitro cytogenetic assay, or DNA repair assay.

First Aid:

Eye: In cases of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek Medical attention.

Skin: Flush with water after excessive contact.

Inhaled: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Swallowed: If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Seek Medical attention.

Advice to Doctor: No specific requirements. Treat symptomatically.

Toxicological Data:

Acute Oral LD50 (rat): >5,545 mg/kg (male), 6,293 (female)

Acute Dermal LD50 (rabbit): >5,000 mg/kg

Inhalation LC50 (rat): >5.9mg/L air

LC50 (96hrs): for rainbow trout >250ppm

III PRECAUTIONS FOR USE

Exposure Standards: None established for formulated product.

Engineering Controls: Use only with adequate ventilation.

Personal Protection:

Avoid skin and eye contact. Avoid inhaling the vapour, or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Flammability:

May be ignited by open flame. Keep away from heat, sparks and flames.

Environment:

DO NOT contaminate any body of water by spraying, cleaning of equipment or disposal of waste.

IV SAFE HANDLING INFORMATION

Storage and Transport:

Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight. Keep from contact with fertilisers, fungicides and seeds.

Spills and Disposal:

Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dyke spill ... prevent liquid from entering the sewers, waterways, or low areas. Shovel or sweep up. DO NOT flush with water. If spill area is on ground near trees or other valuable plants remove the top 50mm of soil after initial cleanup. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State and local regulations.

Reactive Data:

Stable at normal temperatures and storage conditions. Decomposes with heat. Polymerisation will not occur.

Fire/Explosion Hazard:

Not a Fire and Explosion Hazard.

Flammable Limit in Air, % by volume: LEL 0.090g/L

Extinguishing media are water spray and dry chemical. Wear self-contained breathing apparatus. Use water spray. Cool tanker/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

NB: This product is NOT classified as hazardous according to criteria of Worksafe Australia

V OTHER INFORMATION

Contact Points:

| | |
|--------------------------------------|---|
| Police and Fire Brigade: | Dial 000 |
| National Poisons Information Centre: | Dial 13 1126 (from anywhere in Australia) |
| Generex (Aust) Pty Ltd | Dial (02) 9955 7799 |
| | Fax (02) 9955 6599 |

Please read all labels carefully before using this product.