

MATERIAL SAFETY DATA SHEET

Rygel Chlorsulfuron 750 WG Herbicide

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Supplier: Profeng Australia Pty
A.C.N.: 156 055 533
Street Address: 103 Ordish Road, Dandenong South, Vic 3175
Telephone: (03) 9768 2803
Facsimile: (03) 9768 2804
Email: info@profeng.com.au

Emergency telephone number: National Poisons Information Centre:
Phone Australia 13 11 26.

Product name: Rygel Chlorsulfuron 750 WG Herbicide
Product Use: For the control of annual (Wimmera) Ryegrass and certain broadleaved weeds in winter cereal crops as specified in the Directions for Use table on the container label.

2. HAZARDS IDENTIFICATION

Hazardous Nature:

Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Pictogram:



Signal word Warning

Hazard statement(s)

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P273 Avoid release to the environment

P391 Collect spillage

P501 Dispose of contents/container in accordance with



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local/regional/national regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	Conc. %
Chlorsulfuron	64902-72-3	75
Other Non-hazardous ingredients	secret	to 100

4. FIRST AID MEASURES

General information:

If poisoning occurs, contact a Doctor or Poison Information Centre. Phone 13 11 26 from anywhere in Australia.

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

Skin: In case of contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before re-use.

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

Swallowed: No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. Contact a doctor if necessary.

Advice to doctor

No specific requirements. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.

Hazardous Combustion Products

Combustible solid

If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride or phosgene.

Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Other information Hazchem code has not been assigned.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release:

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 sewers, waterways or low areas. Shovel or sweep up. Treatment, storage transportation and disposal must be in accordance with



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applicable Federal, State, and local regulation. Remove non-useable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. DO NOT flush to surface water or sanitary sewer system.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

7. HANDLING AND STORAGE

Handling DO NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

Avoid generating dusts while handling the product and mixing.

If dusts are generated, it is advisable to wear a dust mask, refer Section 8.

Storage Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits No exposure standards have been established for this product by Worksafe Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m³.

Respiratory Protection Do not inhale spray mist. If dust are present, wear a class P1 dust mask.

Personal Protective Equipment

It is good practice to wear suitable personal protective equipment (PPE).

When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles and disposable dust mask.

Eng. Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Hygiene Measures After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to tan
Odour	None
Form	Solid, dry flowable granule
Vapour pressure	Not available
Specific gravity	0.5 bulk density
Flashpoint	Non-flashing
Flammability	Non-flammable
Behaviour in water	Not volatile
Explosive properties	Non-explosive



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Oxidising properties	Non-oxidising
Corrosiveness	Non-corrosive
Combustibility	Non-volatile
Volatility	Non-volatile
Bulk density	0.66 g/cm ³
pH (1% aqueous)	4.5 at 1% suspension
Particle size	0.2-1.6 mm

10. STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry.

Incompatibilities: Water, strong oxidizing agents.

Fire Decomposition: If involved in a strong fire can release carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulphur (sulphur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. Water Carbon monoxide poisoning produces headaches, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea vomiting, coma, convulsions and health. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

Polymerisation: This product is unlikely to undergo polymerization processes.

11. TOXICOLOGICAL INFORMATION

No harmful effects are expected if the precautions on the label and this MSDS are followed.

Inhalation May cause irritation to the respiratory tract.

Ingestion Possible symptoms of exposure include: nausea, vomiting and headache.

Skin Prolonged contact with the concentrate may cause irritation.

Eye May cause some discomfort if contact is prolonged.

Chronic Effect No information available, no chronic effects expect.

Acute toxicology

Oral LD50 (male rats) 5545 mg/kg for chlorsulfuron

Inhalation LC50 (rat) (4hr) >5.9 mg/L for chlorsulfuron

Other information The Australia Acceptable Daily Intake (ADI) for chlorsulfuron for a



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human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref. Comm. Dept. of Health and Ageing, 'ADI List', TGA, August 2003).

12. ECOLOGICAL INFORMATION

Other Precautions Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product

Persistence/Degradability

Slowly hydrolyses in water at neutral pH (50% Hydrolysis in 4-8 weeks at 20°C), more rapid hydrolysis occurs in acid solution.

Acute Toxicology-Fish

Not toxic to fish. LC50 (96hr) for rainbow trout is >250 mg/L for chlorsulfuron

Acute Toxicity-Daphnia

LC50 (48hr) for daphnia is 370 mg/L for chlorsulfuron

Acute Toxicity-Other Organisms

The following data is for the active ingredient, Chlorsulfuron.

Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail is >5000 mg/kg.

13. DISPOSAL CONSIDERATIONS

Product disposal On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product., approach local authorities who hold periods collections of unwanted chemicals (ChemCollect).

Container Disposal thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill. If no lanfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

14. TRANSPORT INFORMATION

U.N. Number	None allocated
Proper Shipping Name	None allocated
DG Class	None allocated
Hazchem Code	None allocated
Packing Group	None allocated
Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Additional Information	Chlorsulfuron 75%



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15. REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Chlorsulfuron, is mentioned in the SUSMP.

16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. **Profeng Australia Pty Ltd** will not be responsible for any damages that may result from reliance on the information contained herein.