

## Rygel Chlorsulfuron 750 WG Herbicide

Not classified as hazardous according to the criteria of NOHSC.  
Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

### 1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Supplier:** Rygel Australia Pty Ltd  
**ACN:** 106 839 007  
**Street Address:** 103 Ordish Road, Dandenong South, Vic 3175  
**Telephone:** (03) 9768 2803  
**Facsimile:** (03) 9768 2804  
**Emergency telephone number:** National Poisons Information Centre: Dial 13 11 26.

**Product name:** Rygel Chlorsulfuron 750 WG Herbicide  
**Product Type:** Group B Herbicide  
**Formulation type:** water dispersible granule  
**Chemical type:** sulfonyl urea  
**UN No.:**  
**Dangerous Goods Class:** None allocated  
**Product Use:** Herbicide 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. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Entity                 | CAS No     | Conc. % | TWA mg/m <sup>3</sup> | STEL mg/m <sup>3</sup> |
|---------------------------------|------------|---------|-----------------------|------------------------|
| chlorsulfuron                   | 64902-72-3 | 75      | not set               | not set                |
| Other Non-hazardous ingredients | secret     | to 100  | not set               | not set                |

### 3. HAZARDS IDENTIFICATION

**Poison Schedule:** 5

### 4. FIRST AID MEASURES

**General information:**

If poisoning occurs, contact a Doctor or Poisons 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.

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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 applicable Federal, State, and local regulations. 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/m<sup>3</sup>.

**Respiratory Protection** Do not inhale spray mist. If dusts 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

|                              |                             |
|------------------------------|-----------------------------|
| <b>Appearance:</b>           | White to tan                |
| <b>Odour:</b>                | None                        |
| <b>Form:</b>                 | Solid, dry flowable granule |
| <b>Vapour pressure:</b>      | Not available               |
| <b>Specific gravity:</b>     | 0.5 bulk density            |
| <b>Flashpoint:</b>           | Non-flashing                |
| <b>Flammability:</b>         | Non-flammable               |
| <b>Behaviour in water:</b>   | Not volatile                |
| <b>Explosive properties:</b> | Non-explosive               |
| <b>Oxidising properties:</b> | Non-oxidising               |
| <b>Corrosiveness:</b>        | Non-corrosive               |
| <b>Combustibility:</b>       | Non-combustible             |
| <b>Volatility:</b>           | Non-volatile                |
| <b>Bulk density:</b>         | 0.66 g/cm <sup>3</sup>      |
| <b>pH (1% aqueous):</b>      | 4.5 at 1% suspension        |
| <b>Particle size:</b>        | 0.2 - 1.6 mm                |

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## 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 oxidising 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 death. 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 polymerisation 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 Effects** No information available, no chronic effects expected.

### Acute Toxicity

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

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

**Other Information** The Australian Acceptable Daily Intake (ADI) for chlorsulfuron for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/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 Toxicity – Fish

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

### Acute Toxicity - Daphnia

LC50 (48 hr) 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 >5,000 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 periodic 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 landfill is available, bury the containers below 500mm

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in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

## 14. TRANSPORT INFORMATION

|                                |  |
|--------------------------------|--|
| <b>U.N. Number</b>             | None Allocated   |
| <b>Proper Shipping Name</b>    | None Allocated   |
| <b>DG Class</b>                | None Allocated   |
| <b>Hazchem Code</b>            | None Allocated   |
| <b>Packing Group</b>           | None Allocated   |
| <b>Storage and Transport</b>   | Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. |
| <b>Additional Information:</b> | Chlorsulfuron 75%  |

## 15. REGULATORY INFORMATION

### Safety Phrase

S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of reach of children.

### Poisons Schedule S5

### Packaging & Labelling

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

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

|                 |                           |        |                |
|-----------------|---------------------------|--------|----------------|
| <b>Contact:</b> | Peter Howat               | Mobile | 0417 921 501   |
|                 | 103 Ordish Road           | Phone  | 61 3 9768 2803 |
|                 | Dandenong South Vic, 3175 | Fax    | 61 3 9768 2804 |

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia).