

# MATERIAL SAFETY DATA SHEET



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## LASHER™ CEREAL HERBICIDE

### 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

**Product Name:** Lasher™ Cereal Herbicide  
**Product Use:** Selective herbicide for the control of Annual (Wimmera) Ryegrass and certain broadleaved weeds in winter cereal crops.  
**Supplier:** Sanonda (Australia) Pty Ltd  
**ACN:** 059 813 973  
**Street Address:** Suite 822, St Kilda Rd Towers, No. 1 Queens Rd, Melbourne, VIC 3004  
**Telephone:** 03 9863 8081  
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### 2. HAZARD IDENTIFICATION

#### Statement of Hazardous Nature

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

#### Risk Phrases:

Not allocated.

#### Safety Phrases:

S13 Keep away from food, drink, and animal feed stuff.  
S2 Keep out of reach of children.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients	CAS No	Concentration , %	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	Balance	Not set	Not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The 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 should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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## **4. FIRST AID MEASURES**

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

### **Inhalation:**

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### **Skin Contact:**

Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. If in doubt obtain medical advice.

### **Eye Contact:**

No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

### **Ingestion:**

If product is swallowed or gets in mouth, wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

### **SYMPTOM**

No specific information.

### **Advice to doctor:**

No specific antidotes. Treat symptomatically.

## **5. FIRE FIGHTING MEASURES**

### **Fire and Explosion Hazards:**

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

### **Extinguishing Media:**

Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

### **Fire Fighting:**

When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus.

### **Flash point:**

Does not burn.

### **Upper Flammability Limit:**

Does not burn.

### **Lower Flammability Limit:**

Does not burn.

### **Autoignition temperature:**

Not applicable - does not burn.

### **Flammability Class:**

Does not burn.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Accidental release:**

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and self contained breathing apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. It should be fitted with a type G cartridge, suitable for agricultural

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chemicals.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the toxicity of this product, special personal care should be taken in any cleanup operation. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## **7. HANDLING AND STORAGE**

### **Handling:**

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

### **Storage:**

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this class of poison. Store in a cool, well ventilated area. Check containers periodically for leaks. Containers should be kept closed in order to minimise contamination. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. If you keep more than 1000kg or 1000L of Toxic Substances of Packaging Group III, you will require a license to do so. If you have any doubts, we suggest you contact your licensing authority

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment:	<b>AS/NZS 1715</b>
Protective Gloves:	<b>AS 2161</b>
Occupational Protective Clothing:	<b>AS/NZS 4501</b> set 2008
Industrial Eye Protection:	<b>AS1336</b> and <b>AS/NZS 1337</b>
Occupational Protective Footwear:	<b>AS/NZS2210</b>

<b>SWA Exposure Limits</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
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The ADI for Chlorsulfuron is set at 0.05mg/kg/day. The corresponding NOEL is set at 5mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2008.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

### **Ventilation:**

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

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## **Eye Protection:**

Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

## **Skin Protection:**

The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

## **Protective Material Types:**

There is no specific recommendation for any particular protective material type.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical Description &amp; colour:</b>	White to off-white granulated solid.
<b>Odour:</b>	Odourless.
<b>Boiling Point:</b>	Chlorsulfuron melts at 174-178°C.
<b>Freezing/Melting Point:</b>	Not applicable.
<b>Volatiles:</b>	Not volatile.
<b>Vapour Pressure:</b>	Negligible at 25°C.
<b>Vapour Density:</b>	No data.
<b>Specific Gravity:</b>	No data.
<b>Water Solubility:</b>	Forms suspension in water.
<b>pH:</b>	4.5-6.5 (1% in water)

## **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:**

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

### **Incompatibilities:**

Strong oxidising agents.

### **Fire Decomposition:**

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 sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

### **Polymerisation:**

This product will not undergo polymerisation reactions.

## **11. TOXICOLOGICAL INFORMATION**

### **ACUTE TOXICITY (chlorsulfuron)**

#### **Oral**

Acute oral LD<sub>50</sub> for male rats: 5545 mg/kg, female rats 6293 mg/kg.

#### **Skin and eye**

Acute percutaneous LD<sub>50</sub> for rabbits 3400 mg/kg. Mild eye irritant; non-irritating and non-sensitising to skin.

#### **Inhalation**

LC<sub>50</sub> (4 h) for rats >5.9 mg/l air.

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## EFFECTS OF AUTE EXPOSURE

### Inhalation

Significant inhalation exposure is considered to be unlikely if used in proper manner as suggested in the label. Available data indicated that this product is harmless.

### Skin Contact

Available data indicated that this product is not harmful. It should present no hazards in normal use if used in proper manners as suggested in the label.

### Eye Contact

Exposure via eyes is considered to be unlikely. This product is believed to be mildly irritating to eyes, but is unlikely to cause anything more than transient discomfort.

### Ingestion

Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

## EFFECTS OF CHRONIC EXPOSURE

### Inhalation:

No data for health effects associated with long term inhalation.

### Skin Contact:

No data for health effects associated with long term skin exposure.

### Eye Contact:

No data for health effects associated with long term eye exposure.

### Ingestion:

No data for health effects associated with long term ingestion.

### Carcinogen Status:

#### ASCC:

No significant ingredient is classified as carcinogenic by ASCC.

#### NTP:

No significant ingredient is classified as carcinogenic by NTP.

#### IARC:

No significant ingredient is classified as carcinogenic by IARC.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

**Birds:** LD50 bobwhite quail: 5620mg/kg LD50 mallard: 5000mg/kg

**Fish:** LC50 rainbow trout: >122mg/L LC50 fathead minnow: >980mg/L

**Daphnia:** EC50 >370mg/L

### ENVIRONMENTAL FATE

Chlorsulfuron is likely to be persistent and highly mobile in the environment. It may be transported to nontarget areas by runoff and/or spray drift. Degradation by hydrolysis appears to be the most significant mechanism for degradation of chlorsulfuron, but is only significant in acidic environments (23 day half-life at pH = 5); it is stable to hydrolysis at neutral to high pH. Degradation half-lives in soil environments range from 14 to 320 days.

## 13. DISPOSAL CONSIDERATIONS

### Disposal:

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction.
- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.

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- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### **14. TRANSPORT INFORMATION**

#### **ADG Code:**

This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

### **15. REGULATORY INFORMATION**

#### **AICS:**

All of the significant ingredients in this formulation are found in the public AICS Database. The following ingredient: Chlorsulfuron, is mentioned in the SUSMP.

### **16. OTHER INFORMATION**

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

All due care and skill, so far as practicable, has been applied in the preparation and collation of the information in this MSDS. Each user of the Product named in this MSDS should read and consider the information contained in this MSDS in the context of how the Product will be stored, handled, used or applied in the workplace. In all circumstances, it is the responsibility of the user of the Product to ensure that they have sought out the relevant safety data appropriate to their particular situation. Nothing contained in this MSDS shall be construed as a representation or recommendation to the user about the suitability or otherwise of the Product named in this MSDS for the user's particular situation. If the user requires any clarification or further information, the user should contact Sanonda (Australia) Pty Ltd.

#### **CONTACT POINT:**

Sanonda (Australia) Pty Ltd  
Suite 822, St Kilda Road Towers,  
No.1 Queens Road, Melbourne, VIC 3004  
**Telephone:** 03 9863 8081  
**Facsimile:** 03 9863 8083

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

**Please read all labels carefully before using product.**