Page: 1 of 5

This revision issued: October, 2005

# Section 1 - Identification of Chemical Product and Company

# SIPCAM

# Sipcam Pacific Australia Pty. Ltd.

A.B.N. 94 073 176 888

Suite 11

23-31 Gheringhap Street

Geelong, Victoria, 3220

Trade Name: Density® WG Herbicide

**Substance:** Active ingredient is a cyclohexanedione oxime derivative.

**Product Use:** Agricultural herbicide for use as described on the product label.

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## **Section 2 - Hazards Identification**

#### **Statement of Hazardous Nature**

This product is classified as: Hazardous according to the criteria of NOHSC Australia. Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: R22. Harmful if swallowed.

**Safety Phrases:** S2, S13, S20, S46, S24/25, S36/37. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. When using, do not eat or drink. If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

SUSDP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

**UN Number:** None allocated

#### **Emergency Overview**

Physical Description & colour: Blue granulated solid.

Odour: No data.

Major Health Hazards: harmful if swallowed.

#### **Potential Health Effects**

#### Inhalation

**Short term exposure:** Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term inhalation.

#### **Skin Contact:**

**Short term exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

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

#### **Eye Contact:**

**Short term exposure:** This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

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

#### Ingestion:

**Short term exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

**Long Term exposure:** No data for health effects associated with long term ingestion.

**Product Name: Density® WG Herbicide** 

Page: 2 of 5

This revision issued: October, 2005

#### **Carcinogen Status:**

**NOHSC:** No significant ingredient is classified as carcinogenic by NOHSC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: Talc is Class 3 - unclassifiable as to carcinogenicity to humans.

See the IARC website for further details. A web address has not been provided as addresses frequently change.

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m³)	STEL (mg/m <sup>3</sup> )
Tralkoxydim	87820-88-0	40	not set	not set
Talc	14807-96-6	10-30	2.5	not set
Other non hazardous ingredients	secret	to 100	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.

## **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 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

**Inhalation:** No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

**Skin Contact:** Gently brush away excess solids. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** Quickly and gently brush particles from eyes. 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. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

# **Section 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. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

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: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Not flammable.

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Autoignition temperature: No data.

Flammability Class: No data.

## Section 6 - Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. 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 dusts are likely to build up in cleanup area, we recommend that you use a suitable Dust Mask. Use a P1 mask, designed for use against mechanically generated particles eg silica & asbestos. Otherwise, not normally necessary. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area

Issued by: Sipcam Pacific Australia Pty Ltd Phone: (03)5223 3746

Product Name: Density® WG Herbicide

Page: 3 of 5

This revision issued: October, 2005

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.

# Section 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 schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

## **Section 8 - Exposure Controls and Personal Protection**

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

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits TWA (mg/m³) STEL (mg/m³)

The ADI for Tralkoxydim is set at 0.005mg/kg/day. The corresponding NOEL is set at 0.5mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2004.

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:** This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used

**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:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask. Otherwise, not normally necessary. Safety deluge showers should, if practical, be provided near to where this product is being used.

## **Section 9 - Physical and Chemical Properties:**

Physical Description & colour: Blue granulated solid.

Odour: No data.

**Boiling Point:** No specific data. Expected to decompose before boiling.

**Freezing/Melting Point:** No specific data. Solid at normal temperatures. Active ingredient melts at

approx 100°C

**Volatiles:** No specific data. Expected to be low at 100°C.

**Vapour Pressure:** 3.7 x 10-4 mPa (Tralkoxydim)

**Vapour Density:** No data. Specific Gravity: 1.16 approx Water Solubility: Dispersible. pH: No data. Volatility: No data. **Odour Threshold:** No data. **Evaporation Rate:** No data. Coeff Oil/water distribution: No data **Autoignition temp:** No data.

Issued by: Sipcam Pacific Australia Pty Ltd Phone: (03)5223 3746

Product Name: Density® WG Herbicide

Page: 4 of 5

This revision issued: October, 2005

# Section 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:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** strong acids, strong bases, 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. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, 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 will not undergo polymerisation reactions.

# **Section 11 - Toxicological Information**

No LD<sub>50</sub> available for the product. However, for the constituent, **TRALKOXYDIM**:

Oral LD<sub>50</sub> (rat, female): 934 mg/kg. Oral LD<sub>50</sub> (rat, male): 1258 mg/kg.

Dermal LD<sub>50</sub> (rat): >2000 mg/kg.

Inhalation LC<sub>50</sub> (rat): >3.5 mg/L/4hr. (limit dose-no deaths) **SKIN**: Mild irritant (rabbit). Not a skin sensitiser (guinea pig).

**EYES**: Mild irritant (rabbit).

Studies in animals have shown that Tralkoxydim is not mutagenic nor carcinogenic. Benign leydig cell tumours were observed in a rat study but this is believed not to represent a hazard in man.

A reproductive study in the rat has shown that repeated doses produce no adverse reproductive effects (multigenerational study). Studies in animals have shown that high doses produce teratogenic effects in the presence of severe maternal toxicity (rats not rabbits).

## **Section 12 - Ecological Information**

#### For TRALKOXYDIM:

**AQUATIC TOXICITY:** Toxic to aquatic organisms. 96hr LC<sub>50</sub> (mirror carp): >8.2 mg/L. 96hr LC<sub>50</sub> (bluegill sunfish): >6.1 mg/L. 96hr LC<sub>50</sub> (rainbow trout): >7.2 mg/L.

Log Pow is 2.1 - Risk of bioaccumulation in an aquatic species is low.

**TERRESTRIAL TOXICITY:** 

Oral  $LD_{50}$  (mallard ducks): >3020 mg/kg. Oral  $LD_{50}$  (bee): 0.054 mg/bee. Oral  $LD_{50}$  (bee): >0.1 mg/bee.

#### **ENVIRONMENTAL FATE, DISTRIBUTION AND PERSISTENCE**

Tralkoxydim solubility is increased with increasing pH.

At pH5 5 mg/L), at pH6.5 (6.7 mg/L) and at pH9 (9800 mg/L).

Tralkoxydim is a solid of low volatility which has low mobility in soil. It degrades rapidly in crops and soil, with half lives between 3 days (aerobic) and 25 days (flooded soil).

# **Section 13 - Disposal Considerations**

**Disposal:** There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Note that properties of a product may change in use, so that the following suggestions may not always be appropriate. The following may help you in properly addressing this matter for this product. Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear (02) 6230 4799 http://www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster http://www.drummuster.com.au/ where you will find contact details for your area.

# **Section 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.

# **Section 15 - Regulatory Information**

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

Issued by: Sipcam Pacific Australia Pty Ltd Phone: (03)5223 3746

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**Product Name: Density® WG Herbicide** 

Page: 5 of 5

This revision issued: October, 2005

## **Section 16 - Other Information**

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

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail

AICS Australian Inventory of Chemical Substances
CAS number Chemical Abstracts Service Registry Number

Hazchem Number Emergency action code of numbers and letters that provide information to

emergency services especially firefighters

IARC International Agency for Research on Cancer

NOHSC National Occupational Health and Safety Commission

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

**UN Number** United Nations Number

Contact Points: AUSTRALIA

Police and Fire Brigade: Dial 000

If ineffective: Dial 1100 (Exchange)
For emergency response: Dial 1800 033 111

National Poisons Information Centre: Dial 13 1126 (from anywhere in Australia)

## Please read all labels carefully before using product.

The Material Safety Data Sheet (MSDS) augments the label and should not be used in place of regulatory approved product labels which are attached to or accompanying the product container. This MSDS provides important health, safety and environmental information for personnel that are manufacturing, distributing, transporting and storing the product, including emergency responders and other product handlers. The label provides information specifically for product users.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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