# MATERIAL SAFETY DATA SHEET


**This revision issued: December, 2004**

## Section 1 – Identification of Chemical Product and Company

**Sipcam Pacific Australia Pty. Ltd.**
**A.C.N. 073 176 888**
**Suite 11**
**23 – 31 Gheringhap Street**
**Geelong, Victoria, 3220**

| | |
|---|---|
| **Substance:** | **Procymidone is a dicarboximide derivative** |
| **Trade Name:** | Rumble 500 Fungicide |
| **Product Use:** | Agricultural fungicide for use as described on the product label |
| **Creation Date:** | September 2002 |
| **Revision Date:** | **December 2004** |

## Section 2 - Hazards Identification

This product is classified as: Hazardous according to the criteria of NOHSC Australia.

**Risk Phrases:** R20, R43, R61. Harmful by inhalation. May cause sensitisation by skin contact. May cause harm to the unborn child.

**Safety Phrases:** S18, S22, S28, S38, S45, S53. Handle and open container with care. Do not breathe dust. After contact with skin, wash immediately with plenty of soap and water. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). Avoid exposure - obtain special instructions before use.

**SUSDP Classification:** S7

**ADG Classification:** None allocated. Not a Dangerous Good.

**UN Number:** None allocated

### Emergency Overview

**Physical Description & colour**: White viscous liquid which settles on standing.

**Odour:** Mild odour.

**Major Health Hazards:** A low acute toxicity was found for Procymidone in the species examined. $LD_{50}$ Oral (Rat) 6800 (male), 7700 (female) mg/kg. In sub-chronic studies in mice, rats and dogs, the main effects were increased liver weight and hepatocellular hyperplasia. Not irritating to skin and eyes of rabbits. May cause harm to unborn children, harmful if inhaled, possible skin sensitiser.

### Potential Health Effects

**See section 11 for Chronic exposure studies.**

**WARNING** – Contains procymidone which causes birth defects in laboratory animals. Women of child bearing age should avoid contact with procymidone.

**Inhalation**

**Short term exposure:** Available data shows that this product is harmful, but symptoms are not available. **This product if inhaled by pregnant women, may cause birth defects.**

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

**Skin Contact:**

**Short term exposure:** Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. However product is unlikely to cause any discomfort in normal use. **May be absorbed through the skin, and in the case of pregnant women, this may lead to birth defects.**

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

**Eye Contact:**

**Short term exposure:** Exposure via eyes is considered to be unlikely. This product is may be irritating to eyes.

**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. **This product if ingested by pregnant women, may cause birth defects.**

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

**Carcinogen Status:**
**NOHSC:** No significant ingredient is classified as carcinogenic by NOHSC.
**NTP:** No significant ingredient is classified as carcinogenic by NTP.
**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Section 3 - Composition/Information on Ingredients

| Ingredients | CAS No | Conc,% | TWA ($mg/m^3$) | STEL ($mg/m^3$) |
|---|---|---|---|---|
| Procymidone | 32809-16-8 | 50 | not set | not set |
| Other non hazardous ingredients | secret | 10-20 | not set | not set |
| Water | 7732-18-5 | 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:** If significant exposure occurs, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

**Skin Contact:** If significant exposure occurs, or if in doubt, wash skin with water and contact a Poisons Information Centre or a doctor.

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

**Ingestion:** If product is swallowed or gets in mouth, wash mouth with water and give some water to drink. Contact a Poisons Information Centre or a doctor. Have this MSDS of product label with you.

## 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. 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:** Not Combustible. Use extinguishing media suited to burning materials.

**Special Fire Fighting procedures:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flash point:** Will not burn until water component is driven off.

**Flammability Limits:** Does not burn.

## Section 6 - Accidental Release Measures

**Accidental release:** Minor spills do not normally need any special cleanup measures. 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. 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. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. 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.

## 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 7 Poison and may be used only under certain conditions - see label for details. Observe all relevant regulations regarding sale, transport and storage of this class of poison. 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

**Exposure Limits:** Exposure limits have not been established by NOHSC for any of the significant ingredients in this product. The ADI for Procymidone 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 2002.

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.

**Ventilation:** Use this product only in areas with adequate ventilation. If dusts or mists are evident, wear a suitable dust mask. However make sure that the work environment remains clean and that vapours and mists are minimised.

**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:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** There is no specific recommendation for any particular protective material type. Any impervious type such as rubber or PVC is suitable.

**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.

## Section 9 - Physical and Chemical Properties:

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|---|---|
| **Physical Description & colour**: | White viscous liquid which settles on standing. |
| **Odour:** | Mild odour. |
| **Boiling Point:** | Approximately 100°C at 100kPa. |
| **Freezing/Melting Point:** | Approximately 0°C. |
| **Volatiles:** | Water component. |
| **Vapour Pressure:** | 2.37 kPa at 20°C (water vapour pressure). |
| **Vapour Density:** | No data. |
| **Specific Gravity:** | 1.16 approx |
| **Water Solubility:** | Completely soluble in water. |
| **pH:** | No data. |
| **Volatility:** | No data. |
| **Odour Threshold:** | No data. |
| **Evaporation Rate:** | No data. |
| **Coeff Oil/water distribution**: | for Procymidone, 3.16 at 26°C (log P octanol/water) |
| **Autoignition temp:** | Does not burn. |

## 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:** This product should be kept in a cool place, preferably below 30°C.

**Incompatibilities:** strong oxidising agents.

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

## Section 11 - Toxicological Information

**Toxicity:** In a long-term feeding study, a slightly increased incidence in liver tumours was reported in mice; in rats, decreased weight gain was observed at 1000 and 2000 ppm.

At these doses, testicular interstitial cell and ovarian stromal hyperplasia, and an increased incidence of testicular interstitial cell tumours, were observed.

In a 2-generation study in rats, infertility and abnormalites of the male sexual organs were observed in adults and in pups at the highest dose level of 750 ppm.

In teratogenicity studies with rats and rabbits no embryotoxic or teratogenic effects were found. No mutagenic properties were found in various test systems (in vivo and in vitro). The effects on reproduction and the induction of testicular tumours in the long-term rat study can be explained by the effects of Procymidone on the endocrine system.

## Section 12 - Ecological Information

Ecotoxic effects are dependent on the application of the formulation. Procymidone has a low oral toxicity to birds as demonstrated in testing with quail and mallard ducks.

Procymidone is moderately toxic to Daphnia magna (water flea) and Oncorhyncus mykiss (rainbow trout), of low toxicity to Lepomis macrochirus (bluegill sunfish) and Oryzius lapipes (killifish).

The log Pow of Procymidone is 3.30. However, the bioconcentration study in fish showed that the BCF is rather low (ca. 110 to 130). Thus, no bioconcentration in birds and mammals is expected. Based on the endpoints, Procymidone has a low acute toxicity to birds and mammals.

The acute toxicity to earthworms is low. The results of the acute oral and contact tests on bees also indicate a low toxicity of Procymidone. There is a low to moderate toxicity to algae .

## Section 13 - Disposal Considerations

**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

## 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 to be found in the public AICS Database.

The following ingredient: Procymidone is listed in the SUSDP as a Schedule 7 - Dangerous Poison - because of the danger of birth defects.

## 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.**

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. The responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

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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