

# Material Safety Data Sheet

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Issue date: November 2005

## GREASE & OIL REMOVER

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** GREASE & OIL REMOVER

**Manufacturer's Product Code:** C950-12

**Use:** Grease and oil remover.

**CHEM-DRYÆ AUSTRALIA**

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### 2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO ASCC/NOHSC/EU CRITERIA

**Hazard Category:** Irritant (Xi), Highly Flammable (F)

**Hazard Classification:** HAZARDOUS SUBSTANCE, DANGEROUS GOOD

#### RISK PHRASES

R11 Highly flammable

R36 Irritating to eyes.

#### SAFETY PHRASES

S7/9 Keep container tightly closed and in a well ventilated place.

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S33 Take precautionary measures against static discharge.

#### Road Transport

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Packing Group:** None allocated

**Poison Schedule:** None allocated [Aust].

#### Warning Statement:

Contents under pressure. Keep away from sources of ignition, heat and naked flames.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
2-BUTANOL	1 to 10 %	78-92-2
PROPYLENE GLYCOL PROPYL ETHER	10 to 30 %	1569-01-3
DIMETHYL ETHER	10 to 30 %	115-10-6
WATER	Balance	7732-18-5

All other ingredients not hazardous according to ASCC/NOHSC/EU Criteria.

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### 4. FIRST AID MEASURES

**Swallowed:**

Not a likely source of exposure. Product is a gas.

**Eye:**

If contents of cylinder are vented directly into the eyes then blindness may occur due to freeze burns. Keep victim calm and warm. In case of freeze burns **URGENTLY** transport to hospital or doctor. In normal use situations, however, if material is splashed or lightly sprayed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

**Skin:**

Remove contaminated clothing and shoes immediately - Clothing frozen to the skin should be thawed before being removed - In case of frostbite, thaw with lukewarm water. Immediately transport to hospital or doctor.

**Inhaled:**

Remove victim to fresh air - Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.

**First Aid Facilities:**

Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor:**

Treat symptomatically.

**In case of poisoning, contact Poisons Information Centre**

**In Australia call Tel: 131126**

**In New Zealand Tel: 034747000**

### 5. FIRE-FIGHTING MEASURES

**Fire/Explosion Hazard**

If safe to do so, move undamaged containers from fire area. If involved in a fire cans may explode if subjected to heat greater than 50 - 54°C.

**SUITABLE EXTINGUISHING MEDIA:** Use Dry chemical, CO<sub>2</sub> or foam to extinguish burning gas if safe to do so.

**DO NOT USE WATER JETS.**

**HAZARDS FROM COMBUSTION PRODUCTS:** Decomposes on heating emitting oxides of carbon and small quantities of noxious smoke.

**PRECAUTIONS FOR FIRE FIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT:** Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended. Cool container by directing flooding quantities of water onto upper surface until well after fire is out - **DO** not direct water at source of leak or venting safety devices as icing may occur, which could then cause a pressure build up and consequently an explosion could result. Damaged containers should only be handled following expert advice.

**HAZCHEM CODE:** 3[Y]E [Aust]

**FLAMMABILITY**

Highly flammable gas. Avoid all sources of ignition, heat and naked flames. Contents under pressure.

### 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:**

**Caution!** Highly Flammable. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contents are under pressure. Assess situation, if safe, remove leaking aerosol container to well ventilated area (outside, away from people and buildings).

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### 6. ACCIDENTAL RELEASE MEASURES (Continued)

#### Methods and Materials for Containment and Clean Up Procedures:

Isolate area until gas has dispersed. If possible, turn leaking containers so that gas escapes rather than liquid. If fire risk is possible, use water spray to reduce vapors or divert vapor cloud drift. Do not direct water at spill or source of leak. Prevent entry into waterways, sewers, basements or confined areas.

#### Emergency information(Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)  
For AEROSOL DISPENSERS Guide No: 49

### 7. HANDLING AND STORAGE

#### Precautions for Safe Handling:

Keep aerosol containers in a cool, dry place away from direct sunlight. Store away from oxidizing agents. Store away from sources of heat, ignition, sparks, flames or electrical discharges. Do not store above 50°C. Do not get liquid or mist in eyes. Provide adequate ventilation.

#### Conditions for Safe Storage:

Store in original packages as approved by manufacturer. **CONTENTS UNDER PRESSURE**. For further information please refer to the Engineering Controls of this MSDS.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

#### *SEC-BUTANOL*

[NOHSC]

[TWA]100 ppm 303 mg/m<sup>3</sup>

#### Engineering Controls

Absolutely no smoking or other sources of ignition. Maintain adequate ventilation. The use of natural ventilation systems are adequate.

#### Personal Protection Equipment

**GLOVES:** Normal use no gloves required, if ruptured, use of thermally insulated gloves recommended.

**EYES:** Chemical goggles or spectacles with side shields to protect eyes.

**RESPIRATORY PROTECTION:** Avoid breathing of vapours/mists or aerosols. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a respirator is not normally required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colourless liquid with an alcohol odour.
<b>Boiling Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not available.
<b>Specific Gravity:</b>	0.96
<b>Flash Point:</b>	< -30°C (Propellant)
<b>Flammability Limits:</b>	Not available.
<b>Solubility in Water:</b>	Completely soluble.

#### Other Properties

<b>pH:</b>	7
<b>Volatiles:</b>	100 %

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### 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:**

Stable under normal conditions of use.

**CONDITIONS TO AVOID:**

Ignition sources and mixing with incompatibles.

**INCOMPATIBLE MATERIALS:**

Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Decomposes on heating emitting oxides of carbon and noxious smoke.

**HAZARDOUS REACTIONS:**

Will not occur.

### 11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

**ACUTE HEALTH EFFECTS:****Swallowed:**

If product, is sprayed directly into the mouth, the effects will be due to possible freeze burns. However, in normal use circumstances, the product may cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

**Eye:**

Spraying of product, directly, into the eyes will cause severe irritation and possible freeze burns. In normal use circumstances, the product will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

**Skin:**

Spraying of product, directly, onto the skin, over a prolonged period, may cause freeze burns. In normal use, the product may cause mild irritation to the skin, with effects including; Redness and itchiness.

**Inhaled:**

Exposure to low concentrations of vapour, may cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and loss of co-ordination.

**Chronic:**

Prolonged or repeated skin contact may lead to skin rashes in susceptible individuals. Prolonged inhalation exposure of high concentrations may cause cough, tremors, convulsions, possible loss of consciousness, coma or death.

**2-Butanol:**

Inhalation LCLo(rat): 16000 ppm/4H

Oral LD50(rat): 6,480 mg/kg

Dermal LD50(rabbit): > 2,000 mg/kg

Irritation (Eye - Skin standard Draize):

Mild reaction.

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### 11. TOXICOLOGICAL INFORMATION (Continued)

#### **Propylene Glycol Propyl Ether:**

Oral LD50(rat): 2,504 mg/kg

Dermal LD50(rabbit): 3,550 mg/kg

### 12. ECOLOGICAL INFORMATION

There is no ecotoxicological information available for this product, however, for the following components:

#### **Propylene Glycol Propyl Ether:**

LC50(Fathead minnow): > 1,000 mg/L

#### **2-Butanol:**

LC50 96 hr (Fish): > 100 mg/L

Avoid contaminating drains, sewers or waterways.

### 13. DISPOSAL CONSIDERATIONS

Seek expert advice in all cases dealing with leaking or suspicious cylinders. Remove all unnecessary personnel from the area. If safe to do so, move container to safe area and stand up right. Turn valve on slowly, leave area. Call manufacturer or specialised gas cylinder reconditioner for removal and or disposal.

### 14. TRANSPORT INFORMATION

#### **Road Transport**

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Packing Group:** None allocated

**Label:** Irritant (Xi), Highly Flammable (F)

#### **Air Transport**

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

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**Label:** Irritant (Xi), Highly Flammable (F)

#### **Sea Transport**

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Label:** Irritant (Xi), Highly Flammable (F)

### 15. REGULATORY INFORMATION

**Poison Schedule:** None allocated [Aust]

#### **Inventory Status:**

<i>Inventory</i>	<i>Status</i>
Australia (AICS)	Y
United States (TSCA)	Y
Europe (EINECS/ELINCS)	Y

Y = all ingredients are on the inventory.

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### 16. OTHER INFORMATION

**Date of Preparation:**

**Issue date:** October 06, 2005

**Supersedes:** March 23, 2003 & December 25, 2001

**Reasons for Update:**

1. Alignment with the 2<sup>nd</sup> Edition of National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2001(2003)].
2. Changes and /or addition made to all sections.

**Key Legend Information:**

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

ASCC - Australian Safety and Compensation Council [Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997) [Aust]

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

TSCA - Toxic Substances Control Act [US]

OSHA - Occupational Safety and Health Administration [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]

AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]

Hazchem Code - Fire fighters designation [Aust]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EINECS - European Inventory of Existing Commercial Chemical Substances. [Int]

ELINCS - European List of Notified Chemical Substances. [Int]

EU - European Union [Int]

**EU Directives:** The classification criteria used, are adopted from the European Community's (EC) legislation for classifying dangerous substances. The criteria are taken from:

EC Council Directive 67/548/EEC

EC Council Directive 1999/45/EC

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

**Principal References:**

Information supplied by manufacturer, reference sources including the public domain.

**Disclaimer**

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used. Responsibilities of the supplier associated with this product are outlined in our standard terms and conditions, a copy of which is sent to customers and is available on request.

**END OF MSDS**