

# Material Safety Data Sheet

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Issue date: June 2007

## GREASE & OIL SPOT REMOVER (AEROSOL)

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** GREASE & OIL SPOT REMOVER PROFESSIONAL STRENGTH AEROSOL

**Manufacturer's Product Code:** C980-12

**Use:** Grease and oil spot remover.

**CHEM-DRYÆ AUSTRALIA**

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### 2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO ASCC/NOHSC/EU CRITERIA

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

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

#### RISK PHRASES

R11 Highly flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/38 Irritating to eyes and skin.

#### SAFETY PHRASES

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

S33 Take precautionary measures against static discharge.

S36/37 Wear suitable protective clothing and gloves.

#### Road Transport (ADR/RID)

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Packing Group:** None allocated

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

#### Warning Statement:

Liquid and vapour are considered to be harmful by inhalation, liquid is harmful by skin contact and if swallowed. Will cause irritation to eyes and skin. Highly flammable, avoid all sources of ignition, heat and naked flames.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
2-BUTOXY ETHANOL	10 to 30 %	111-76-2
DIMETHYL ETHER	10 to 30 %	115-10-6
LONG CHAIN COPOLYMER SODIUM SALT	1 to 5 %	52500-92-2
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.

**For advice, 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.

**Flash Point:** < -30°C (Propellant)

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### 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).

#### 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 HB76:2004)  
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:

#### *2-BUTOXY ETHANOL*

[NOHSC]

[TWA] 25 ppm 121 mg/m<sup>3</sup>

**Notices:** Sk

**References:** H;R

#### Sk Notation:

For most substances in the occupational setting, the main route of entry into the body is via inhalation. However, 2-Butoxy ethanol can readily penetrate the intact skin and thus become absorbed into the body, with resultant toxic effects.

#### 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. The use of a respirator is not normally required.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colourless liquid with a glycol odour.
<b>Boiling Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not available.
<b>Specific Gravity:</b>	0.98
<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>	9 - 9.5
<b>Volatiles:</b>	> 90 %

### 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:

Harmful if swallowed. May cause irritation to mouth, throat and stomach with effects including pains in the stomach, which may lead to nausea, vomiting and diarrhoea. Swallowing large quantities of 2-butoxy ethanol may result in metabolic acidosis, hypokalemia, hemoglobinuria, and possibly deep coma.

##### Eye:

Will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

##### Skin:

Harmful by skin contact. Will cause irritation to the skin, with effects including; Redness, itchiness, and drying/defatting. 2-butoxy ethanol may be absorbed through the skin with resultant toxic effects in blood system, spleen and testes.

##### Inhaled:

Harmful if inhaled. Mists from the product may cause irritation to the nose, throat and respiratory system with effects including: Cough, discomfort, difficulty breathing and shortness of breath. 2-butoxy ethanol may affect the central nervous system.

##### Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur.

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### 11. TOXICOLOGICAL INFORMATION (Continued)

#### 2-Butoxy ethanol:

Oral LD50(rat): 470 mg/kg

Inhalation LC50(rat): 450 ppm/4Hr

Dermal LD50(rabbit): 220 mg/kg

### 12. ECOLOGICAL INFORMATION

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

#### 2-Butoxy ethanol:

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

### 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 (ADR/RID)**

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Packing Group:** None allocated

#### **Air Transport (ICAO/IATA)**

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Packing Group:** None allocated

#### **Sea Transport (IMDG)**

**UN Number:** 1950

**Proper Shipping Name:** AEROSOLS

**Dangerous Goods Class:** 2.1

**Packing Group:** None allocated

### 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.

**EU Label:** Harmful (Xn), Irritant (Xi), Highly Flammable (F)

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## GREASE & OIL SPOT REMOVER (AEROSOL)

### 16. OTHER INFORMATION

**Date of Preparation:**

Issue date: June 08, 2007

**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)].

**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 HB76:2004) [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]

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]

ADR/RID - European Road & Rail Transport 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.

**END OF MSDS**