

MATERIAL SAFETY DATA SHEET

Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

COMPANY Delshine Chemicals
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BRAND NAME – HEAVY DUTY CLEANER
TRADE NAME - HEAVY DUTY CLEANER
SHIPPING NAME (section 14) NOT APPLICABLE
USE – DEGREASING PLANT AND EQUIPMENT
RESTRICTIONS – AVOID CONTACT WITH SOFT METALS , ACIDS AND OLD PAINTED SURFACES.

Section 2 HAZARDS CLASSIFICATION / IDENTIFICATION

CLASSIFIED AS : HAZARDOUS - According to the criteria of NOHSC and classified as a dangerous good according to the ADG code.

UN NUMBER : NOT APPLICABLE

RISK PHRASES : R36 / 38 Irritating to the eyes and skin.
R41 Risk of serious damage to eyes.

SAFETY PHRASES: S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes , rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately. Show label whenever possible.

Section 3 COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Entity:	CAS No:	Proportion (% mass)
Sodium Hydroxide	1310-73-2	< 10
Ethylene Glycol Monobutyl Ether	111-76-2	<10%

Section 4 FIRST AID MEASURES

Poisons Information Centres in each state capital can provide additional assistance for scheduled poisons. Phone 13 11 26.

Ingestion – Immediately rinse mouth with water. Give water to drink. DO NOT induce vomiting. If vomiting occurs place victims face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical assistance.

Eye Contact – Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Skin Contact – Immediately wash contaminated skin with plenty of water. For gross contamination immediately drench with water and remove clothing. Remove contaminated clothing and wash before re use. If swelling , redness or blistering occurs seek medical advice.

Inhalation – Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible , either on site or at the nearest hospital.

Notes to physician – Treat symptomatically and as for strongly alkaline corrosive material.

First Aid Facilities: **Ensure an eye bath and safety shower are available and ready for use.**

Section 5 FIRE FIGHTING MEASURES

Fire Fighting further advice – Not combustible . Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Suitable extinguishing media – Water fog (or if unavailable fine water spray) foam, dry agent (carbon dioxide , dry chemical powder).

HAZCHEM CODE : NOT APPLICABLE

Section 6 ACCIDENTAL RELEASE MEASURES

Slippery when wet. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. Contain using sand and soil – prevent runoff of significant quantities into drains and waterways. For small spills , hose away with copious amounts of water. Use absorbent (soil or sand inert material , vermiculite). Collect and seal in properly labeled containers for disposal.

Section 7 HANDLING AND STORAGE

Storage – Keep containers closed at all times. Store in cool area away from acids and Foodstuffs. Do not store in aluminum or galvanized containers or use die-cast zinc or aluminum bungs. Plastic or steel bungs should be used. Observe good occupational hygiene. Wash hands before eating and remove contaminated clothing before entering eating areas.

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits.

No value assigned for this specific material by the National Occupational Health and Safety Commission (Work Safe Australia)However , Exposure standards for constituent : ethylene glycol mono butyl ether TWA 25ppm (121 mgm/m³) Absorption through skin may be a significant source of exposure. As published by the National Occupational Health and Safety Commission (Work Safe Australia)This exposure standard is a guide to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Measurers - Ensure good ventilation when using product to maintain ethylene glycol mono butyl ether vapour concentration below 25ppm. Vapour is heavier than air.

Personal Protection Equipment – Avoid skin and eye contact. Wear protective clothing , closed footwear , pvc or rubber gloves and safety glasses or face mask.

Section 9 PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE – Pale Red Liquid

PH - 12

BOILING POINT °C - 100

FREEZING POINT °C – Not available

SPECIFIC GRAVITY – 1.1

ODOUR - Solvent

VAPOUR PRESSURE – Not available

VAPOUR DENSITY – Not available

SOLUBILITY - Complete

Section 10 STABILITY & REACTIVITY

Stability - Shelf Life . Heavy Duty Cleaner when stored in a cool dry area is a stable product and will not deteriorate within a reasonable time. When stored in sunlight colour may fade. Avoid conditions of heat and freezing. Avoid contact with aluminum , zinc , brass , galvanized and painted surfaces and acids.

Section 11 TOXICOLOGICAL INFORMATION

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

Ingestion – Swallowing can result in nausea , vomiting , diarrhoea , abdominal pain , swelling of larynx , burns to oesophagus and stomach.

Eye Contact – A severe eye irritant . Contamination of the eyes can result in permanent injury. Contact can cause corneal burns.

Skin Contact – Contact with skin will result in severe irritation. Repeated or prolonged skin contact may lead to irritant dermatitis. May cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contaminating gloves and boots.

Inhalation – Inhalation of mists will result in respiratory irritation an possible harmful effects including lesions of the nasal septum, pulmonary odema , pneumontis and emphysema.

Long Term Effect – Chronic effects are unlikely due to the severity of acute effects.

Acute toxicity / Chronic toxicity – No data available

For Components –

Sodium Hydroxide – Skin (Rabbit) severe irritation 500mg/24hr

Eyes (Rabbit) severe irritation 1m/30 Sec Rinse

Ethylene Glycol Monobutyl Ether Oral LD50 = 560mg/kg RAT = 1200mg/kg MOUSE = 320mg/kg

RABBIT Inhalation LC50 = 2400mg/l/4hrs RAT (1) = 3360mg/l/4hrs MOUSE (1)

Section 12 ECOLOGICAL INFORMATION

No data available . For major component Ethylene Glycol Monobutyl Ether (EGMBE) the following data is available.

Mobility – Ethylene Glycol Monobutyl Ether is involatile and water soluble and will partition to the aqueous phase. EGMBE should not partition to organic matter in soils/sediments. Persistence

Degradability – EGMBE is readily biodegradable . BOD20=66% of ThOD (MITI test)

Bioaccumulation – EGMBE is not expected to bioaccumulation. Predicted bioconcentration factor = 4.

Genotoxicity – EGMBE has been tested in a number of bacterial and mammalian systems. No significant mutagenic response was observed and the carcinogenic potential of the material is therefore considered to be low. Reproductive / Developmental – Studies on pregnant animals have indicated that this solvent is not terogenic (did not cause malfunction in the offspring). Studies in laboratory animals have shown no effects on fertility in the following species : mice.

Avoid contaminating waterways.

Section 13 DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. May be greatly diluted or carefully neutralized with diluted acid and flushed to drain with copious amounts of water. Alternatively normally suitable for disposal at approved land waste site.

Section 14 TRANSPORT INFORMATION

UN NUMBER : Not Applicable

UN PROPER SHIPPING NAME : Not Applicable

Section 15 REGULATORY INFORMATION

POISONS SHEDULE (SUSDP)

R36/38 Irritating to eyes and skin R41 Risk of serious damage to eyes.

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Section 16 OTHER INFORMATION

DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET

1st September 2009

CONTACT POINT – Les Buss – TELEPHONE (08) 9309 4222

AUTHORISATION FOR ISSUE _____ DATE ____/____/____

Les Buss

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