

PRODUCT: D-GREASE

D-Wax Alkaline Cleaner



Date of Issue: SEPTEMBER 2010

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SECTION 1 - STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER:

Solutions - Sealers for Stone & Tile.

ADDRESS:

2/14 Textile Avenue, Warana, QLD 4575, Australia.

Trade Name:

"D-GREASE" -HEAVY DUTY DEGREASER

TELEPHONE:

1300 4 STONE (78663)

FAX:

(07) 5437 7715

AH EMERGENCY TELEPHONE:

13 1126 in Australia

ABN:

25 128 656 082.

Substance:

floor stripper

Product Use:

Heavy duty cleaner, wax remover and degreaser.

Creation Date: Product Code: **SEPT 2010**

Revision Date:

SEPT 2015

SECTION 2 – HAZARDS IDENTIFICATION

This product is classified as HAZARDOUS (CORROSIVE/HARMFUL) according to criteria of the National Occupational Health and Safety Commission Australia.

This product is classified as Dangerous Goods according to the Australian Dangerous Goods (ADG)

This product is a scheduled 6 Poison according to the SUSDP.

Approved Criteria

C-CORROSIVE, Xn - HARMFUL

Classification



DORROSIV

R35 - Causes severe burns.

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

R37 - Irritating to respiratory system.

S1/2 - Keep locked up and out of the reach of children.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show

the label wherever possible).

UN Number

1760

ADG Classification

Shipping Name

CORROSIVE LIQUID N.O.S.

ADG Subsidiary Risk

None allocated

Hazchem Code

2X

Packing Group

SUSDP Classification

S6 POISON

solvent odour

EMERGENCY OVERVIEW Colour

Physical Description

caramel coloured

Odour

non-viscous

Major Health Hazards

Liquid None known Viscosity

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances"

Hazardous substance as defined in the NOLISO	publication Approve	SO CHICHA IOI CIASSII	71119 1 14241 4040 000	otanoco i
Ingredients:	CAS Number:	Proportion:	Exposure	Exposure
		·	Standards	Standards
			TWA	STEL



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potassium hydroxide	1310-58-3	10 – 30 % w/w	2 mg/m³ Peak	Peak STEL 2 mg/m ³
Alkaline salts	various	< 10% w/w	not set	not set
Monoethanolamine	141-43-5	10 - 30% w/w	3 ppm 7.5 mg/ m ³	6 ppm (15 min) 15 mg/ m ³
Ethylene glycol monobutyl ether	111-76-2	10 - 30% w/w	25ppm (121 mg/m³)	not set
Ingredients determined to be non- hazardous	various	< 10% w/w	not set	not set
Water.	7732-18-5	To 100% w/w	not set	not set

The TWA exposure value is the Time Weighted 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.

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		2001600	Section Section 5.	11.505.50mm/hVz	200		i transcription		
Caba	بلييات	المم	Daia	~~~		Doio	000	Infor	matian

Poisons Information Centre in each Australian State capital city or in Christchurch, New Scheduled Poisons

Zealand can provide additional assistance for scheduled poisons. (Phone Australia

131126 or New Zealand 0800 764 766).

First Aid Facilities

Normal washroom facilities.

Skin contact

OFOTION A

Wash skin with plenty of water. Remove contaminated clothing and wash before re-use.

Seek medical advice (e.g. doctor) if irritation, burning or redness develops.

Eye contact

Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be

held open. Seek medical advice (e.g. ophthalmologist).

Ingestion

Inhalation

Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).

Remove victim to fresh air away from exposure. Obtain medical attention if symptoms

Advice to Doctor

All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in

Christchurch, New Zealand can provide additional assistance for scheduled poisons.

Aggravated Medical

Conditions None known.

SECTION 5 -	FIRE FIGHTING	MEASURES
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Fire and Explosion Non flammable liquid. However, on evaporation of the aqueous component, the residual Hazards

material may burn.

Extinguishing Media

Carbon Dioxide, foam, dry powder.

Fire Fighting Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear

self-contained breathing apparatus if risk of exposure to products of combustion or

decomposition.

Flash Point None



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency

HAZCHEM CODE: 2X

Procedures 2 = water fog -

2 = water fog – in the absence of fog, a fine spray may be used.
 X = No risk of violent explosion, Full protective clothing, Contain.

Shut off engine and electrical equipment and leave off. Move people from immediate area; keep upwind.

Consider initial evacuation distance of 100 metres in all directions.

Stop leak if safe to do so.

Send messenger to notify fire brigade and police.

Tell them location, material quantity, UN number and emergency contact.

Indicate condition of vehicle and damage or injuries observed.

Warn other traffic.

Occupational Release

Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If required, neutralize with acid. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

SECTION 7 – HANDLING AND STORAGE

Handling

Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash

hands with water after handling.

Storage

Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

National Occupational Exposure Limits, as published by National Occupational Health &

Safety Commission:

Time-weighted Average (TWA): None established for product.

See Section 3 for each component.

Short Term Exposure Limit (STEL): None established for product.

See Section 3 for each component.

Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.

Personal Protective Equipment This product is classified as a hazardous cleaning liquid. Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;

Eye Protection





The use of goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.



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Skin Protection



Wear chemical resistant gloves. Overalls, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.

Protective Material

Types Respirator



Material suitable for detergent contact – Butyl rubber, Neoprene, PVC, and Nitrile.

Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State non-viscous liquid Colour caramel Odour characteristic odour Specific Gravity 1.02 - 1.06 @ 25 °C **Boiling Point** IBP: 100 °C Freezing Point Approximately 0 °C Vapour Pressure **Vapour Density** Not available Not available Flash Point not flammable Flammable Limits Not available Hq Water Solubility Miscible in all proportions > 13.0 neat Volatile Organic Coefficient of Water/Oil Not available Compounds (VOC) Distribution Not available Viscosity Not available **Odour Threshold** Not available **Evaporation Rate** Not available Per Cent Volatile Ca 85% v/v

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen) which generates fire or explosion hazards. Reacts slowly with ambient air (particularly carbon dioxide) which may cause certain insoluble salts top form in solutions. In the presence of acids, exothermic (heat producing) reaction may occur. Product can decompose on combustion to form Silica, Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours on burning.

When involved in a fire, this product may generate obnoxious and toxic fumes; carbon

Incompatible Materials

Hazardous

Incompatible with oxidizing agents.

Decomposition

ous

Products

oxides / nitrogen oxides (Nox).

Hazardous Reactions

None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION

Local Effects

Corrosive and harmful: eye, skin, inhalation and ingestion.

Target Organs

Eyes, mucous membranes, skin, CNS.

POTENTIAL HEALTH EFFECTS

Ingestion

short term exposure

This product containing ingredient Potassium Hydroxide may cause burning to the mouth, throat, gastrointestinal tract on ingestion. This product containing ethylene glycol mono butyl ether may cause headache, dizziness, light-headedness, confusion, and



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passing out, and may damage the liver and kidneys on ingestion.

long term exposure Skin contact No information available.

short term exposure

This product containing ingredient Potassium Hydroxide may cause burns to the skin. Skin contact with this product containing ingredient ethylene glycol monobutyl ether may

cause central nervous system effects.

long term exposure

Prolonged skin contact with this product containing ingredient Potassium Hydroxide may induce eczematoid dermatitis. Prolonged skin contact with this product containing ingredient ethylene glycol monobutyl ether may induce possible red blood cell changes

(moderate exposure), kidney or liver damage (high exposure).

Eye contact

short term exposure

long term exposure

Inhalation

This product containing ingredient Potassium Hydroxide may cause burns to the eye.

No information available.

short term exposure

Aerosols of this product containing ingredient Potassium Hydroxide are corrosive to the respiratory system. Aerosols of this product containing ingredient ethylene glycol

monobutyl ether may cause central nervous system effects if inhaled.

long term exposure

Possible red blood cell changes (moderate exposure), kidney or liver damage (high

exposure).

Carcinogen Status

NOHSC

NTP

IARC

No significant ingredient is classified as carcinogenic by NOHSC. No significant ingredient is classified as carcinogenic by NTP. No significant ingredient is classified as carcinogenic by IARC.

Medical conditions aggravated by

aggravated by exposure

No information available.

CLASSIFICATION OF INDIVIDUAL INGREDIENTS

NOTE: This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See Section 3 for actual proportions present in this product.

Ingredients	R-Phrases.	
Potassium hydroxide	R35.	
ethylene glycol mono butyl ether	R20/21/22, R37	
Monoethanolamine	R20, R36/37/38	

Monoethanolamine 100%

Irritation Data

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. A severe eye irritant, Contamination of eyes can result in permanent

injury. Material is irritant to the mucous membranes of the respiratory tract (airways).

Available evidence from animal studies indicate that repeated or prolonged exposure to

Toxicity Data

Available evidence from animal studies indicate that repeate this material could result in effects on the liver and kidneys.

Oral LD50 (rat): 1,720 mg/kg, Oral LD50 (mice): 700 mg/kg.

Dermal LD50 (rabbit): 1 mL/kg. Inhalation LC50 (mice): >2,420 mg/m3/2hr.

SKIN: Moderate irritant (rabbit). EYES: Severe irritant (rabbit).

Local Effects

Corrosive: inhalation, skin, eye, ingestion

Target Organs
Acute Toxicity Level
Reproductive Effects

Skin, mucous membranes, eyes. Moderately Toxic: ingestion

Mutagenic Data Carcinogenic Data No available information. No available information.

cinogenic Data

Carcinogenicity studies in mice, dermally administered diethanolamine over a lifetime developed liver and kidney tumours. However, in similarly treated rats there was no

evidence of carcinogenicity.



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ethylene glycol mono butyl ether (2-butoxy ethanol) 100%

500 mg open skin-rabbit mild: 100mg eyes - rabbit severe: 100mg/24 hour(s) eyes -Irritation Data

rabbit moderate.

The lethal oral dose of ethylene glycols in humans is approximately 1.4 ml/kg, which **Toxicity Data**

would be equivalent to approximately 100 ml of 100% 2-butoxyethanol for a 70 kg

LD50 Rat oral 1.48 g/kg LD50 Mouse oral 1.2 g/kg LD50 Rabbit oral 0.32g/kg LD50 Guinea pig oral 1.2 g/kg

LD50 Rabbit dermal 400 mg/kg

Odour threshold Value: 0.10 ppm (detection), 0.35 ppm (recognition), IDLH Level: 700

ppm.

Local Effects Irritant: inhalation, skin, eye.

Blood, central nervous system, kidneys. **Target Organs** Toxic: inhalation, dermal absorption, ingestion. **Acute Toxicity Level**

Mutagenic Data A statistically significant increase in mutations not generally observed in cell cultures at

any concentration for a range of tests.

Reproductive Effects May damage the developing foetus.

Potassium Hydroxide 100%

Corrosive to skin - can cause burns. Corrosive to eyes - can cause permanent injury Irritation Data

and possible loss of sight. Inhalation of dusts or mists of the solution can result in

respiratory irritation and possible corrosive effects.

ANIMAL TOXICITY DATA: LD50 (rat. oral): 365 mg/kg **Toxicity Data**

> Irritant Dose (rabbits.dermal): 50 mg/24 hr - severe skin irritant Irritant Dose (rabbits, ocular): 1 mg/24 hr - Moderate eve irritant Corrosive: skin, eye, inhalation (of aerosol) and ingestion.

Local Effects Target Organs Skin, mucous membranes, eyes.

Reproductive Effects No available information.

Toxic: ingestion, skin, inhalation (of aerosol or dust). **Acute Toxicity**

Mutagenic Data No available information.

SECTION 12 – ECOLOGICAL INFORMATION

None available for specific product. Fish toxicity

For Monoethanolamine: Harmful to aquatic organisms. Risk of bioaccumulation in an

aquatic species is low.

Log Octanol/Water Partition Coefficient: - 1.31

48hr EC50 (Daphnia magna): 33 mg/L. 96hr LC50 (fathead minnow): 125 mg/L. None available for specific product

Invertebrates toxicity

None available for specific product. Toxicity to Bacteria None available for specific product

OECD Biological degradation

Algae toxicity

Individual components stated to be biodegradable.

General Product miscible in all proportions with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR

ENVIRONMENT. Inform local authorities if this occurs.



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SECTION 13 – DISPOSAL CONSIDERATIONS

To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septics, and grey water systems. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.

SECTION 14 – TRANSPORT INFORMATION				
UN Number	1760	ADG Classification	Class 8	
Shipping Name	CORROSIVE LIQUID, N.O.S.	ADG Subsidiary Risk	none allocated	
Hazchem Code	2X	Packing Group	111	
Packaging Method	3.8.8	Special Provisions	SP184	
Segregation	This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following: Class 1, Explosives, Class 4.3, Dangerous When Wet Substances, Class 5.1, Oxidizing Agents & Class 5.2 Organic Peroxides, Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids), Class 7, Radioactive Substances, Class 8, Corrosive Substances (concentrated strong acid is to be segregated from strong alkali), and are incompatible with food and food packaging in any quantity.			

SECTION 15 – REGULATORY INFORMATION				
AICS	All ingredients present on AICS.			
Labelling Details				
HAZARD	C-CORROSIVE, Xn - HARMFUL			
RISK PHRASES	R35 - Causes severe burns.			
	R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.			
	R37 - Irritating to respiratory system.			
SAFETY PHRASES	S1/2 - Keep locked up and out of the reach of children.			
	S24/25 - Avoid contact with skin and eyes.			
	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
	S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.			
	S45 - In case of accident or if you feel unwell, seek medical advice immediately (show			
	the label wherever possible).			
SUSDP	S6 POISON (POTASSIUM HYDROXIDE)			
ADG Code	8			

SECTION 16 - OTHER INFORMATION				
Acronyms	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons.		
•	ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail.		
	CAS	Chemical Abstracts Service Registry Number.		
	Number			
	UN Number	United Nations Number.		
İ	R-Phrases	Risk Phrases.		



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HAZCHEM An emergency action code of numbers and letters which gives information

to emergency services.

NOHSC National Occupational Health and Safety Commission.

NTP National Toxicology Program (USA).

IARC International Agency for Research on Cancer.
AICS Australian Inventory of Chemical Substances.

TWA Time Weighted Average STEL Short Term Exposure Limit

Literature References List of Designated Hazardous Substances [NOHSC:10005(1999)]

Australian Code For The Transport Of Dangerous Goods By Road And Rail - Sixth

Edition.

Standard for the Uniform Scheduling of Drugs and Poisons.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition

[NOHSC:2011(2003)]

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]

Material Safety Data Sheets - individual raw materials - Suppliers.

HSIS - Hazardous Substance Information System - National Worksafe Data Base.

Revision Information New Issue to standard: 2nd Edition [NOHSC:2011(2003)].

Note Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

Contact PointRegulatory Affairs Manager.Telephone(07) 5437 7714Issue DateSEPT 2010Supersedes Issue DateSEPT 2005

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.