



MATERIAL SAFETY DATA SHEET "DESCALE MAGIC"

SECTION 1 – PRODUCT IDENTIFICATION

Product Name: "DESCALE MAGIC"
Use: Acidic cleaning product.

Distributor: Rubbedin Pty Ltd
Emergency Phone No: 0405358685
Regular Phone No: (07) 3245 3255
Fax: (07) 3245 2554
Email: rubbedin@rubbedin.com.au
Address: Unit 1/43 Neumann Road
Capalaba QLD 4157

SECTION 2 – HAZARDS IDENTIFICATION

- This product is **classified as HAZARDOUS (IRRITANT)** according to criteria of the National Occupational Health and Safety Commission Australia.
- This product is **NOT classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code.
- This product is **NOT classified as a Scheduled Poison** according to the SUSDP.

**Worksafe
Classification**



Xi - IRRITANT
R36/37/38 - Irritating to eyes, skin and respiratory system.
S22 - Do not breathe dust.
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.

UN Number	none allocated	ADG Classification	none allocated
Shipping Name	none allocated	ADG Subsidiary Risk	none allocated
Hazchem Code	none allocated	Packing Group	none allocated
SUSDP Classification	none allocated		

EMERGENCY OVERVIEW

Colour	white	Odour	none
Physical Description	uniform powder	Viscosity	powder
Major Health Hazards	None known		

SECTION 3 – 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 hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances".

Ingredients:	CAS Number:	Proportion:	Exposure Standards TWA	Exposure Standards STEL
Ingredients determined to be non-hazardous	Various	< 10% w/w	not set	not set
citric acid - food grade	77-92-9	> 60% 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.

SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES



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Scheduled Poisons	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 03 474 7000).
First Aid Facilities	Normal washroom facilities.
Skin contact	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 water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist) if any irritation persists.
Ingestion	Do NOT induce vomiting. 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).
Inhalation	Remove victim to fresh air away from exposure - avoid becoming a casualty. Seek medical advice (e.g. doctor) if symptoms persist.
Advice to Doctor	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient.
Aggravated Medical Conditions	None known.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Not combustible. However if involved in a fire will emit toxic fumes.
Extinguishing Media	Use an extinguishing media suitable for surrounding fires.
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. Evacuate area - move upwind of fire.
Flash Point	Not combustible

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	No HAZCHEM code.
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. For large spills, or tank rupture, consider initial evacuation distance of 200 metres in all directions. Stop leak if safe to do so. If available, use water spray to disperse vapour. 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 swept or shoveled up, 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 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



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Exposure Limits

National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:

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

See **SECTION 3** for Exposure Limits of individual ingredients.

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

See **SECTION 3** for Exposure Limits of individual ingredients.

Biological Limit Value

None established for product.

Engineering Controls

No special requirements.

Personal Protective

Equipment

This product is classified as hazardous (irritant) according to the criteria of Worksafe Australia. 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



Generally not required to handle as per label directions.

The use of safety glasses with side shield protection, 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.

Skin Protection



Generally not required to handle as per label directions.

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

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

Respirator

Not required for normal cleaning operations.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	powder	Colour	white
Odour	nil	Specific Gravity	1.665 @ 25 °C
Boiling Point	Not available	Freezing/melting Point	153 °C
Vapour Pressure	Not available	Vapour Density	Not available
Flash Point	Not flammable	Flammable Limits	None
Water Solubility	Miscible in all proportions	pH	2.2 (0.1N soln)
Volatile Organic Compounds (VOC)	0 % v/v	Coefficient of Water/Oil Distribution	Not available
Viscosity	Not available	Odour Threshold	Not available
Evaporation Rate	Not available	Per Cent Volatile	Ca 1 % v/v

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable at normal temperatures and pressure.
Conditions to Avoid	Oxidising agents, extremes in temperature.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.
Hazardous Reactions	None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION

Local Effects None known

Target Organs None known

POTENTIAL HEALTH EFFECTS



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

Ingestion

short term exposure Swallowing will result in a burning sensation in the mouth, throat, oesophagus and digestive system. Swallowing large amounts on a regular basis will result in erosion of tooth enamel.

long term exposure No information available.

Skin contact

short term exposure This product is mildly irritating to skin. Persons with pre-existing skin conditions may be sensitive to this product.

long term exposure Prolonged and repeated skin contact with undiluted solutions may induce eczematoid dermatitis.

Eye contact

short term exposure This product is severely irritating to eyes. Causes moderate tissue burns and temporary corneal damage.

long term exposure No information available.

Inhalation

short term exposure This product is irritating to the respiratory system if inhaled as a generated dust. This product may cause nose and throat irritation, coughing and shortness of breath.

long term exposure No information available.

Carcinogen Status No significant ingredient is classified as carcinogenic by NOHSC.

NOHSC No significant ingredient is classified as carcinogenic by NTP.

NTP No significant ingredient is classified as carcinogenic by IARC.

IARC No significant ingredient is classified as carcinogenic by IARC.

Medical conditions aggravated by exposure No information available.

SECTION 12 – ECOLOGICAL INFORMATION

Fish toxicity None available for specific product.

Algae toxicity None available for specific product.

Invertebrates toxicity None available for specific product.

Toxicity to Bacteria None available for specific product.

OECD Biological degradation Individual components have been specifically included in this product because they are known to be readily biodegradable and of low toxicity to fish and other aquatic organisms.

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.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septic, and grey water systems. 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. 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	none allocated	ADG Classification	none allocated
Shipping Name	none allocated	ADG Subsidiary Risk	none allocated
Hazchem Code	none allocated	Packing Group	none allocated

