

MATERIAL SAFETY DATA SHEET

AUSTRALIA:
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Classified as Hazardous according to the criteria of NOHSC Australia
Classified as Dangerous according to the Australian Dangerous Goods Code (ADG)

I IDENTIFICATION

Product Name: **DRAIN CLEANER**
Proper Shipping Name: Sulphuric Acid
UN No: 1830 **Hazchem Code:** 2P
Class: 8
Poisons Schedule: S6
Uses: Heavy Duty Acid

Hazards Identification**HAZARDOUS SUBSTANCE. DANGEROUS GOODS.**

Substances (Minimum Degrees of Hazard) Regulations 2001

- 6.1D – Substance that is acutely toxic
- 6.7D – Substance that is a known or presumed carcinogen
- 6.9A – Substance that is toxic to human target organs or systems
- 8.1A – Substance that is a corrosive to metals
- 8.2B – Substance that is corrosive to dermal tissue
- 8.3A – Substance that is corrosive to ocular tissue
- 9.1D – Substance that is slightly harmful in the aquatic environment

Risk Phrases: R35.Causes severe burns.
Safety Phrases: S26, S30, S45, S23 (3), S24/25, S36/37/39. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Never add water to this product. In case of accident or if you feel unwell seek medical advice immediately. Do not breathe spray. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

Physical Appearance & Properties

Appearance & Odour: Colourless (pure) to brownish liquid, denser than water, choking fumes if heated, hygroscopic
Melting Point: 10°C
Boiling Point: 270°C
Flashpoint: Not available
Solubility in Water: Soluble
Specific Gravity: 1.50 – 1.83 approx
pH Value: 0.3 (1N solution)
Vapour Pressure: <0.001 mmHg at 20°C
Vapour Density (Air=1): Not available
Evaporation Rate: Not available
Flash Point: Not available
Auto-ignition Temperature: Not available
Flammable Limits – Lower: Not available
Flammable Limits – Upper: Not available

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Ingredients Worksafe Exposure Limits

Chemical Entity	CAS No	Proportion,
Water	7732-18-5	Balance
Sulphuric Acid	7664-93-9	60-98%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

Stability and Reactivity:	Corrosively attacks most metals liberating hydrogen gas, (potential explosion).
Chemical Stability:	Stable under normal conditions of storage and handling
Incompatible Materials:	Incompatible with most metals and strong alkalis.
Hazardous Decomposition Products:	Oxides of Sulphur
Hazardous Polymerisation:	Will not occur

II HEALTH HAZARD DATA

Toxicology Information:

LD50 (Oral, Rat) ; 2140 mg/kg

Acute Effects:

Swallowed:	Ingestion of this product will cause burns to the mouth, throat and stomach, resulting in extensive tissue damage and severe pain.
Eye:	Corrosive to eyes. Eye contact will cause severe burns. It can cause permanent damage and blindness.
Skin:	Corrosive to skin. Skin contact will cause redness, irritation and severe burns with resultant tissue destruction.
Inhalation:	Inhalation of vapour, mist or fumes can cause severe irritation and chemical burns to the respiratory tract. May cause bronchitis, pneumonia and pulmonary oedema.
Chronic Effects:	Chronic exposure to liquid, vapour or mist may result in harmful corrosive effects to skin and respiratory system.

First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia.

Eyes:	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek immediate medical attention.
Inhalation:	Remove the source of contamination or move the victim to fresh air. Seek immediate medical attention.
Ingestion:	Do NOT induce vomiting. Wash out mouth with large amounts of water. Seek immediate medical attention.
Advice to Doctor:	Treat symptomatically.
First Aid Facilities:	Eye wash station, safety shower and normal washroom facilities.
Other Information:	For advice in an emergency, contact Poisons Information Centre (Phone Australia 13 1126).

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Ecological Information

Ecotoxicity:	Not available.
Persistence/Degradability:	Not available.
Mobility:	Not available.
Bioaccumulative Potential:	Not available.
Environment Protection:	Do not allow product to enter drains, waterways or sewers.

Disposal Considerations: The disposal of the spilled or waste material must be done in accordance with applicable local and national regulation.

III Exposure Controls and Personal Protection

National Exposure Limits:

National Occupational Health and Safety Commission (NOHSC), Australian Exposure Standards:

Substance Notice	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Sulphuric Acid 3	-	1	-	-

TWA (Time Weighted Average):

The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit):

The average airborne concentration over a 15 minute period which would not be exceeded at any time during a normal eight-hour workday.

Biological Limits Values:

No biological limit allocated.

Engineering Controls:

An effective ventilation system, such as a local exhaust ventilation system, drawing vapours, mists and fumes away from workers' breathing zone, should be used.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Hand Protection:

Wear gloves of impervious material e.g. laminated film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1, Occupational protective gloves – Selection, Use and maintenance.

Eye Protection:

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments. Eye protection should conform with AS/NZS 1337, Eye Protectors for Industrial Applications.

Body Protection:

Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist.

IV SAFE HANDLING INFORMATION

Conditions for Safe Storage

Store in a cool, dry well-ventilated area away from incompatible materials. Keep containers tightly closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

Precautions for Safe Handling:

Corrosive liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use designated areas with adequate ventilation. Avoid breathing in vapours, mists and fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, that is always wash hands before eating, drinking, smoking or using the toilet facilities.

Accidental Release Measures

Observe all relevant local and international regulations.

Emergency Procedures:

Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unnecessary personnel. Stop the leak if safe to do so. Increase ventilation. If possible contain the spill. Neutralise product with lime or soda ash, adjusting pH to 6-10. Collect the material and place into suitable labeled containers for subsequent disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.

Transport Information;

This material is a Class 8 Corrosive Substance according to the Australian Code for Transport of Dangerous Goods by Road and Rail.

Packing Group:	II
Packaging Method:	3.8.8RT8
EPG Number:	8A2
IERG Number:	40

V FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Suitable Extinguish Media:

Extinguish fire with foam, dry chemical powder, carbon dioxide, water fog or water spray.

Hazards from Combustion Products:

Combustion products include oxides of sulphur.

Specific Hazards:

This product is considered non-combustible. Its other hazardous properties should however be considered if it is involved in a fire. Contact with strong alkalis may generate heat.

Additional Advice: Keep adjacent containers cool by spraying with water.

Precautions in Connection with Fire:

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat – exposed containers. If safe to do so, remove containers from path fire. Do not allow run-off from fire fighting to enter drains or water courses.

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V OTHER INFORMATION

Regulatory Information:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as a Scheduled Poison (S6) according to the Standard for the uniform Scheduling of Drugs and Poisons (SUSDP).

Poisons Schedule: S6

Hazard Category: Corrosive

AICS:

All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health & Safety Commission
NOS	Not otherwise specified.
NTP	National Toxicological Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

Contact Points:

AUSTRALIA

Police and Fire Brigade:

Dial 000

If Ineffective:

Dial 1100 (Exchange)

National Poisons Information Centre:

Dial 13 1126 (from anywhere in Australia)

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. The responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

The information contained in this material safety data sheet is believed to be accurate on the date of issue and in accordance with the information available to us. Persons dealing with products referred to in this MSDS do so at their own risk. We accept no liability whatsoever for damage or injury however caused arising from use of this information or of suggestions contained herein.