

MATERIAL SAFETY DATA SHEET

Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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BRAND NAME – DRAIN CLEANER
TRADE NAME – DRAIN CLEANER
SHIPPING NAME (section 14) CORROSIVE SOLID N.O.S
USE – CAUSTIC MIX FOR CLEANING DRAINS

RESTRICTIONS – KEEP AWAY FROM ACIDS

Section 2 HAZARDS CLASSIFICATION / IDENTIFICATION

CLASSIFIED AS : HAZARDOUS ACCORDING TO CRITERIA OF NOHSC AND CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO THE ADG CODE

UN NUMBER : 1823

Emergency Overview – Corrosive . Strongly alkaline. Causes burns. Irritating to respiratory system. Irritating to eyes and skin.

Health Effects – Acute

Swallowed – Corrosive. May cause severe gastrointestinal tract irritation with nausea , vomiting and possible burns. May be harmful if swallowed.

Eyes – Contact with eyes will cause severe irritation , and eye burns.

Skin – Contact with skin causes irritations , and burns especially if skin is wet or moist.

Inhaled – May cause irritation of the respiratory tract with burning pain in the nose and throat , coughing , wheezing , shortness of breath and pulmonary oedema.

Health Effects – Chronic

Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

CONTINUE SECTION 2 HAZARDS CLASSIFICATION / IDENTIFICATION

- RISK PHASES –
- R35** – Causes severe burns
 - R37** – Irritating to respiratory system
 - R41** – Risk of serious eye damage
- SAFETY PHASES –
- S 1 / 2** – Keep locked up and out of reach of children
 - S 13** – Keep away from food , drink and animal foodstuffs
 - 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 contact a doctor or poisons information centre.
 - 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 label whenever possible)

Section 3 COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Entity:	CAS No:	Proportion (% mass)
Sodium Metasilicate Penta Hydrate	10213-79-3	30 - 60
Sodium Carbonate	497-19-8	10 – 30
Sodium Hydroxide	1310-73-2	30 - 60

Section 4 FIRST AID MEASURES

- Swallowed** – DO NOT induce vomiting, give large amounts of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
- Eyes** – Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention immediately.
- Skin** – Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention immediately.
- Inhaled** – Remove from exposure to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult give oxygen. Seek medical attention.
- Advice to doctor – Medical conditions aggravated by exposure – asthma , skin & lung diseases. Treat symptomatically based on judgement of doctor and individual reactions of patient
- First Aid Facilities:** **Ensure an eye bath and safety shower are available and ready for use.**

Section 5

FIRE FIGHTING MEASURES

Flammability – Non Combustible

Fire / Explosion – Non – combustible .Stable under normal conditions. Flammable hydrogen gas may be produced on contact with metals such as aluminium, tin , and zinc especially in the presence of moisture. Incompatible with strong acids.

Extinguishing Media – Fire fighters should wear full protective clothing including self contained breathing apparatus. Material is non combustible . Use equipment / media appropriate to surrounding fire conditions.

HAZCHEM CODE : 2 X

Section 6

ACCIDENTAL RELEASE MEASURES

Spills – clean up personnel should wear full protective clothing including breathing apparatus in dusty conditions. Prevent material from entering waterways, drains or sewers. Sinks and mixes with water. Sweep , scoop or vacuum up spilled material . Flush spill area with water and neutralize with dilute acid.

Section 7

HANDLING AND STORAGE

Storage – Store in a cool dry area away from heat, sparks and flame.

Section 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards – An exposure limit for this material has not been established by Worksafe Australia, although a ceiling limit of 2mg/m³ respirable dust is recommended by the manufacturer.

Engineering Controls – Use adequate ventilation to keep airborne concentrations low.

Personal Protection – Use AS1715 / 1716 approved dust respirator where dust occurs. Wear rubber gloves chemical goggles or face shield and other protective clothing to minimize exposure. Do not get in eyes on skin or on clothing. Do not breathe dust. Wash hands and face thoroughly after handling and before work breaks , eating , drinking , smoking or using toilet facilities.

Section 9	PHYSICAL & CHEMICAL PROPERTIES
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APPEARANCE - White Granules

ODOUR – slight

PH – 12.7 approx (1 % solution)

VAPOUR PRESSURE – not available

BOILING POINT °C – 1390

VAPOUR DENSITY – not available

FREEZING POINT °C – not available

SOLUBILITY - complete

SPECIFIC GRAVITY – 1.1

ADDITIONAL INFORMATION

Section 10	STABILITY & REACTIVITY
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Stable under normal conditions . Reactive to acids. Attacks aluminium and zinc.
Hazardous polymerization – will not occur.

Section 11	TOXICOLOGICAL INFORMATION
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Toxicity Data – Sodium Hydroxide Eye irritant Rabbit 24hr 50ug. Skin irritation Rabbit 24hr 500mg.
Sodium Metasilicate Oral LD50 = 1280 mg/kg (RAT) Dermal LD50 = not available- skin (human) 250 mg/24hrs severe. Inhalation LC50 = not available Not listed as a carcinogen by OSHA , NTP or IARC.
For Sodium Carbonate – Oral Rat LD50 : 4090 mg/kg inhalation Rat LC50 : 2300 mg/m³/2H : irritation eye Rabbit : 50mg severe investigation as a mutagen reproductive effector.

Section 12	ECOLOGICAL INFORMATION
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High pH. Alkalinity of undiluted or unneutralised material (pH > 8.5) is harmful to aquatic life.

Section 13	DISPOSAL CONSIDERATIONS
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Disposal – Dispose of in accordance with local state and federal regulations at an approved waste disposal facility. Product can be neutralized with diluted acid and solids landfilled according to relevant regulations.

Section 14	TRANSPORT INFORMATION
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UN NUMBER : 1823
UN PROPER SHIPPING NAME : Corrosive Solid N.O.S

CLASS: 8 **PACKING GROUP: 11** **HAZCHEM CODE: 2X**

Section 15	REGULATORY INFORMATION
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Australian Inventory of Chemical Substances – all ingredients are listed on the AICS.
NOHSC (Worksafe) Labelling – Corrosive Risk phases R35 Causes severe burns , R37 Irritating to respiratory system , R41 Risk of serious eye damage. S1/2 Keep locked up and out of reach of children, S13 Keep away from food , drink and animal foodstuffs, S24/25 Avoid contact with skin and eyes, S26 In case of contact with eyes rinse immediately with plenty of water and contact a doctor or Poisons Information Centre, S36/37/39 Wear suitable protective clothing , gloves , eye / face protection, S45 In case of accident or if you feel unwell seek medical advice immediately (show label whenever possible)

SUSDP LABELLING – Safety directions – Strong alkaline. Avoid contact with skin and eyes.

First Aid Instructions - For advice contact a Poisons Information Centre (phone Australia 131 126) at once . If swallowed DO NOT induce vomiting . If in eyes hold eyelids apart and flush until advised to stop by the Poisons Information Centre or a doctor or for at least 15 minutes. If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water.

Section 16	OTHER INFORMATION
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DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET :

6TH MAY 2008

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

AUTHORISATION FOR ISSUE _____ **DATE**
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Les Buss

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END OF M.S.D.S