

Safety Data Sheet

Descaler

1: Identification of the material and supplier

Names

Product Name: Descaler
Other Name: None allocated
Supplier: Chemform Pty Ltd (ABN: 50 008 905 119)
7 Kirke Street, Balcatta, WA 6021
Phone (08) 9344 2455 Fax: (08) 9344 4360 Email: admin@chemform.com.au
Emergency Telephone: Poisons Information Centre (Australia) 13 1126
Recommended Use: Scale and rust removal for ferrous metals.

2: Hazardous Identification

Statement of Hazardous/ Dangerous Nature: Classified as hazardous according to the criteria of Safe Work Australia and classified as dangerous goods according to Australian Dangerous Goods Code.

Hazard Classification: Xi Irritant

Risk Phrases: R36/37/38 Irritating to eyes, respiratory system and skin

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
S45 In case of accident or if you feel unwell, seek medical advice immediately.

3: Composition/Information on Ingredients

INGREDIENT	CAS NUMBER	PROPORTION
Hydrochloric Acid	7647-01-0	10-30%
Classified as non-hazardous ingredients		To 100%

4: First Aid Measures

Ingestion: If swallowed, do NOT induce vomiting. Immediately rinse mouth with water and give half a glass of water to drink.

Eye: If in eyes, hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Seek urgent medical assistance.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Inhaled: Remove victim from exposure – avoid becoming a casualty. For all but the most minor symptoms obtain urgent medical assistance.

Advice to Doctor: Treat symptomatically as for strong acids. The symptoms of lung oedema often does not become manifest until a few hours have past. Rest and medical observation are essential.

First Aid Facilities: Eye wash station, fresh water

Long Term Effects: None known

5: Fire Fighting Measures

General Comment:	The product is non combustible.
Hazards from Combustion Products:	Decomposes on heating emitting poisonous and/or corrosive fumes, hydrogen chloride. Keep containers cool with water spray.
Specific Hazards:	The product will react with metals to generate hydrogen, a highly flammable gas.
Hazchem Code:	2R

6: Accidental Release Measures

Spills and Disposal:	If spillage occurs in a confined space ensure adequate ventilation. Isolate leaking container and stop leak if safe to do so. Wear appropriate protective clothing. Evacuate unprotected personnel from danger area. Neutralize spilled product with lime or soda ash and dispose of in accordance with local authorities.
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7: Handling and Storage

Handling:	Minimise direct contact with product. Only use plastic containers when measuring or dispensing.
Storage:	Store in a well-ventilated area. Keep out of direct sunlight. Always replace lid on container after use.
Hygiene Measures:	Always wash hands before eating, drinking, smoking or using the toilet. Ensure emergency safety shower is located close to work station and that emergency safety shower is hooked up to an alarm system so other workers are made aware and can assist in an emergency.

8: Exposure Controls – Personal Protection

National Exposure Standards: TWA of 7mg/m³ as hydrogen chloride

Engineering Controls: Vapours are corrosive to surrounding metal equipment and plant. Use only in a well ventilated area and preferably outdoors.

Personal Protection:

Eyes:	Face shield.
Hands:	nitrile gloves
Skin:	nitrile gloves splash apron and rubber boots.

9: Physical and Chemical Properties

Appearance:	Yellow liquid
Odour:	Strong and irritating
pH (Undiluted):	0.5
Vapour Pressure:	18mm of Hg at 20°C
Vapour Density:	1.27 (air = 1)
Boiling Point:	105°C
Melting Point:	Not applicable.
Solubility:	Completely soluble in water in all proportion
Specific Gravity:	1.13

10: Stability and Reactivity

Chemical Stability:	The product is stable under normal conditions.
Conditions to Avoid:	Do not heat product. Always use at ambient temperatures.
Incompatible Materials:	Corrosive to most metals producing highly flammable hydrogen gas.
Hazardous Reaction:	Reacts violently with caustic materials liberating excessive heat. Reacts with chlorine containing products liberates very toxic gas.

11: Toxicological Information

Toxicology Information:	Oral: Rabbit LD50 900 mg/kg
Ingestion (acute):	Corrosive to mouth, throat, gullet and stomach.
Eye (acute)	Corrosive to eyes and contact with eyes can result in permanent injury.
Skin (acute):	Corrosive.
Inhalation (acute):	Vapours, sprays or mists may lead to lung damage including pulmonary edema and emphysema.
Chronic Effects:	Not known.

12: Ecological Information

Environmental Protection This substance may be hazardous to the environment.

13: Disposal Considerations

Disposal Methods: This product should never be discharged into the environment. Disposal of this product should at all times comply with requirements of environmental protection and waste disposal legislation as well as requirements by local authorities.

14: Transport Information

UN Number:	1789
UN Proper Shipping Name:	Hydrochloric acid solution
Class	8
Subsidiary Risk:	None allocated
Packing Group:	II
Special Precautions	Ensure all containers are clearly labeled. Keep containers securely sealed and protected against physical damage. Use only plastic containers. Store away from caustic material.
For users:	
Hazchem Code:	2R
IERG Number:	40

15: Regulatory Information

Packaging & Labeling: This product contains a Scheduled Poison (S6) and must therefore be stored, maintained and used in accordance with the relevant State Poisons Act. Defined as a "Dangerous Good" by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

16: Other Information

Prepared By: Brett Amos

Date of Previous Issue: February 2006

Change Made: Full Review

References: Australian Dangerous Goods Code
List of Designated Hazardous Substances
National Code of Practice for the Preparation of Material Safety Data Sheets
Standard for the Union Scheduling of Drugs and Poisons

Contact Person/Point: Australia:
24 HOUR EMERGENCY CONTACT
Poisons Information Centre (Australia) 13 1126

LEGAL DISCLAIMER:

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

END OF SAFETY DATA SHEET