

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Chem-Det cleaning and decontamination agent.
Catalogue Number: M039.
Other Names: Chem-Det.
Recommended Use: Laboratory Detergent.

Supplier Name: ProSciTech
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 **Fax Number:** (07) 4773 2244
Emergency Contact: (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC.
Hazardous and/or Dangerous Nature: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Risk Phrases: R36/38 Irritating to eyes and skin.
Safety Phrases: 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.
 S45 In case of accident or if you feel unwell seek medical advice immediately.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE: **Chemical Identity:** Chem-Det.
Common Name(s):
CAS Number(s): -

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Surfactants	-	10-30
Sequestering Agents	-	10-20
Sodium Hydroxide	1310-73-2	2
Water	7732-18-5	=> 48

SECTION 4 - FIRST AID MEASURES

Swallowed: Remove to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice.
Eye: Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
Skin: Remove contaminated clothing and wash affected skin with soap and water. If irritation occurs seek medical advice. Wash clothing before reuse.
Inhaled: Remove to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice.
First Aid Facilities: Eyebath/eyewash & Safety shower.
Medical Attention & Special Treatment: Treat symptomatically or consult a Poisons Information Centre.

ADDITIONAL INFORMATION:

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Small fire: Use dry chemical, CO₂, water spray or appropriate foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Hazards from Combustion Products:

Solutions will not burn or support combustion. However contact with aluminum, zinc or tin may generate explosive hydrogen gas. Decomposition products include sodium oxide and oxides of carbon.

Precautions for Fire Fighters:

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fire.

Hazchem Code: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Containment and clean up:

Prevent spill from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material. Spills are slippery. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Avoid prolonged or repeated contact with skin, eyes and clothing.

Conditions for Safe Storage:

Keep container tightly closed and in a cool, dry, well-ventilated place. Keep away from direct sunlight.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Sodium Hydroxide: TWA 2mg/m³.

Biological Limit Values: No biological limit allocated.

Engineering Controls:

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Personal Protective Equipment:

Respiratory Protection: Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels. **Eye Protection:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection: Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommended: Nitrile or neoprene gloves.

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use. **Body Protection:** Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures: Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear Liquid.
Odour:	Not available.
pH:	14
Vapour pressure (mm of Hg at 25°C):	Not available.
Vapour density:	Not available.
Boiling point/range (°C):	Not available.
Freezing/melting point (°C):	Not available.
Solubility:	Soluble in water.
Specific gravity or density:	1
Flash Point:	Not available.
Flammable (explosive) limits:	Non-flammable.
Ignition temperature:	Not available.
Additional Information:	

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Exposure to air. Absorbs carbon dioxide.
Incompatible Materials:	Acids, organic materials, chlorinated solvents, aluminum, phosphorus, tin and zinc.
Hazardous Decomposition	Solutions will not burn or support combustion. However contact with

Products: aluminum, zinc or tin may generate explosive hydrogen gas. Decomposition products include sodium oxide and oxides of carbon.

Hazardous Reactions: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Ingestion:

May irritate gastric system if large quantities are ingested.

Inhalation:

Not considered a hazard with normal laboratory use.

Skin Contact:

May irritate skin tissue of sensitive individuals with prolonged contact. Product may cause defatting of the skin with irritation and dermatitis with prolonged skin contact.

Eye Contact:

Causes irritation to eye tissue.

Human/Animal data: Sodium Hydroxide: LD50 (rabbit): 500 mg/kg
 Eye Irritation Rabbit - sodium hydroxide 100mg rinse produced severe eye irritation.
 Skin Irritation Rabbit - sodium hydroxide 500mg rinse produced severe skin irritation after 24 hrs.

Carcinogenicity: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Mobility: Not available.

Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Class and Subsidiary risk: Not regulated.

Packing Group: Not regulated.

Special Precautions for User: Not available.

Hazchem Code: Not available.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: S5

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: August 10

Comments:

List of Publications referenced when creating this MSDS;

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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