

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) Name: Sodium Hydroxide Solution. Catalogue # C201.
Other Names:
Recommended Use: pH adjuster.

Supplier Name: ProSciTech
Postal Address: PO Box 111, Thuringowa Central Qld. 4817 Australia
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.
Risk Phrases: R42: May cause sensitisation by inhalation. R35: Causes severe burns. R36/37/38: Irritating to eyes, respiratory system and skin.
Safety Phrases:

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE:
Chemical Identity: Sodium Hydroxide solution
Common Name(s):
CAS Number(s): 1310-73-2

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Water	7732-18-5	96
Sodium Hydroxide	1310-73-2	4

SECTION 4 - FIRST AID MEASURES

Swallowed: DO NOT induce vomiting. Have a conscious person drink several glasses of water or milk. seek medical attention.
Eye: Check for and remove any contact lenses. Flush eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Rinse with a dilute solution of boric acid. Finish by rinsing thoroughly with running water to avoid possible infection. Cold water may be used.
Skin: Remove contaminated clothing. Where the chemical has come in contact with skin use a boric or acetic acid to neutralize the skin. Wash with plenty of running water and non-abrasive soap. If irritation occurs seek immediate medical attention. Wash contaminated clothing before reuse.
Inhaled: Remove person to fresh air. Loosen tight clothing such as a collar, tie or belt. If breathing is difficult administer oxygen. If not breathing give artificial respiration. Seek immediate medical attention.
First Aid Facilities: Safety shower and Eyebath.
Medical Attention & Special Treatment:

ADDITIONAL INFORMATION:

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Hazards from Combustion Products:
Precautions for Fire Fighters: Wear full protective gear and breathing apparatus. Material is non-flammable.
Hazchem Code:

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Containment and clean up:

Wear appropriate protective equipment, refer to Section 8.
SMALL SPILL: Dilute with water and mop up or absorb with an inert dry material and place into a suitable disposal container. If necessary: Neutralise the residue with a dilute solution of acetic acid.
LARGE SPILL: Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. **DO NOT** get water inside container. **DO NOT** touch spilled material. Use water spray curtain to divert vapour drift. Prevent entry to sewers, basements or confined areas; dike if needed. Neutralise the residue with a dilute solution of acetic acid.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:

Keep container dry. **DO NOT** ingest. Do not breathe gas, fumes, vapour or spray. Never add water to this product. In case of insufficient ventilation wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles as moisture.

Conditions for Safe Storage:

Alkalis may be stored in heavy duty gauge steel containers. Corrosive materials should be stored in a separate safety storage cabinet or room.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards:

No exposure standard allocated.

Biological Limit Values:

No biological limit allocated.

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep airborne concentrations low. Ensure that safety showers and eyewashes are close to work stations.

Personal Protective Equipment:

Splash goggles, full suit, vapour respirator, boots, gloves and self-contained breathing apparatus.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:

Clear liquid.

Odour:

Odourless.

pH:

1% solution/water = basic.

Vapour pressure:

0.62 (air = 1) based on data for: Water.

Vapour density:

17.535mm of Hg (at 20°C) based on data for: Water.

Boiling point/range:

100°C.

Freezing/melting point:

Not available.

Solubility:

Easily soluble in both hot and cold water.

Specific gravity or density:

Weighted average: 1.02 (Water = 1).

Flash Point:

Not available.

Flammable (explosive) limits:

Not available.

Ignition temperature:

Not available.

Additional Information:

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:

Stable under normal storage and handling conditions.

Conditions to avoid:

Incompatible Materials:

Hazardous Decomposition

Products:

Hazardous Reactions:

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects: Very dangerous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion. Slightly dangerous to dangerous in case of inhalation. Not dangerous in case of skin contact (non-sensitizer for skin). Corrosive to eyes and skin. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Possible routes of exposure: Inhalation, ingestion and skin/eye contact.

Range of effects following exposure:

Dose likely to cause injury:

Delayed effects:

The substance is toxic to lungs, mucous membranes. Toxicity of the product to the reproductive system: Not available. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Relevant negative data:

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability:

Mobility:

Additional Information:

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with State and Local regulations.

Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number: UN1824

UN Proper Shipping Name: Sodium hydroxide solution

Class and Subsidiary risk: 8

Packing Group: III

Special Precautions for User:

Hazchem Code:

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None allocated

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: February 2008