

Material Safety Data Sheet

1 Identification of substance:

• **Product name:** Stainless Steel Weld Neutraliser

• **Stock number:** 129934

• **Manufacturer/Supplier:**

PPS Industries Limited
86 Hugo Johnston Drive,
Penrose,
Auckland, New Zealand
P.O.Box 12-823, Penrose, Auckland 1642
Phone: 64 9 579-1001
Facsimile: 64 9 579-9474
Emergency Phone: 0800 657 894 Monday to Friday 8am-4pm
Web Site: www.ppsindustries.co.nz

• **Emergency contact detail:**

For emergency only. During normal hours call PPS Industries office.

Organization	Location	Phone
National POSITION CENTER	New Zealand	0800 647-766
Chemcall 24/7 Emergency Response Service	New Zealand	0800 243-6225

2 Hazards identification

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classified as a Dangerous Goods according to NZS 5433.

• **Hazard description:** Class 8, Sodium Hydroxide Solution, Packing Group II, UN 1824

• **HSNO Class:**

Class 6 Toxicity

6.1D(oral) Acutely Toxic.

6.1E(dermal) Acutely Toxic.

Class 8 Corrosive

8.1A Corrosive to metal.

8.2B Corrosive to dermal tissue.

8.3A Corrosive to ocular tissue.

Class 9 Ecotoxicity

9.1D(fish) Slightly harmful in the aquatic environment or are otherwise designed for biocidal action.

9.1D(crustacean) Slightly harmful in the aquatic environment or are otherwise designed for biocidal action.

• **EPA Approved Number:** HSR001576

3 Composition/Data on components:

• **Chemical characterization:**

Description:	(CAS#)	Concentration	Hazardous
Sodium Hydroxide	1310-73-2	<30 % w/w	Yes
Water	7732-18-5	balance	No

• **4 First aid measures**

- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**
DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- **Information for doctor**
Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

• **5 Fire fighting measures**

Fire:

Not considered to be a fire hazard. Hot or molten material can react violently with water.

Can react with certain metals, such as aluminium, to generate flammable hydrogen gas.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Adding water to caustic solution generates large amounts of heat.

Special Information:

In the event of a fire, wear full protective clothing and approved self-contained breathing apparatus with full facemask operated in the pressure demand or other positive pressure mode.

• **6 Accidental release measures**

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:**
Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulphuric.
- **Measures for cleaning/collecting:**
Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.
- **Additional information:**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

• **7 Handling and storage**

• **Handling**

Information for safe handling:

Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Always add the caustic to water while stirring; never the reverse.

• **Storage**

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Information about storage in one common storage facility:

Do not store with aluminium or magnesium.
Do not mix with acids or organic materials.
Store away from water/moisture.

• **8 Exposure controls and personal protection**

- A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

- **Personal protective equipment**

- **Breathing equipment:**

Use suitable respirator when high concentrations are present.

- **Protection of hands:** Impervious gloves

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing.

• **9 Physical and chemical properties:**

Appearance: White, deliquescent pellets or flakes.

Odour: Odourless.

Solubility: 100 g/100 g of water.

Specific Gravity: 1.3

pH: 13 - 14 (0.5% soln.)

Boiling Point: No information found.

Melting Point: No information found.

Vapor Density (Air=1): > 1.0

Vapor Pressure (mm Hg): Negligible.

• **10 Stability and reactivity**

Stability:

Stable under ordinary conditions of use and storage. Very hygroscopic. Can slowly pick up moisture from air and react with carbon dioxide from air to form sodium carbonate.

Hazardous Decomposition Products:

Sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Hazardous Polymerisation:

Will not occur.

Incompatibilities:

Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminium, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

Conditions to Avoid:

Moisture, dusting and incompatibles.

• **11 Toxicological information**

Irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe; investigated as a mutagen.

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Sodium Hydroxide (1310-73-2)	No	No	None

• **12 Ecological information:**

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

• **13 Disposal considerations**

• **Product:**

• **Recommendation**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a approved waste facility. Consult state, local or national regulations to ensure proper disposal.

• **Uncleaned packagings:**

• **Recommendation:**

Disposal must be made according to official regulations.

• **14 Transport information**

• **DOT regulations:**

- **Hazard class:** 8
- **Identification number:** UN1824
- **Packing group:** II
- **Proper shipping name (technical name):**
SODIUM HYDROXIDE SOLUTION

• **15 Regulations**

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- **16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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