

# Safety Data Sheet

## Environmental Protection Authority

Hazardous Substances (identification)  
Regulations 2004 (NZ)



Product Name <b>Sodium Hydroxide 0.1N, 0.01N Solutions</b>	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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### Section 1

Manufacturer's Name: Pacific Rim Oenology Services	Emergency Telephone Number: National Poisons 24hr: 0800 764 766
Address (Number, Street, City, Region, and Post Code): 4 Bristol St, Riverlands, Blenheim, Marlborough, 7274	Telephone Number for Information: (+64) (0) 3 577-9000
PO Box 1132, Blenheim 7240	Original - Issue date: 25/07/17 - 15/11/17
New Zealand	

### Section 2 - Hazard(s) identification

Hazardous Components (Specific Chemical Identity; Common Name(s))	HSNO for components	Classification
Sodium Hydroxide #1310-73-2	HSR001587	6.1E, 6.3A, 6.4A

### Section 3 - Label Elements

None required

**Signal Word** None required

#### Hazard statements

H303 - Harmful if swallowed

#### Precautionary statements

P102 - Keep out of reach of children

### Section 4 - Composition and information on ingredients

Component	CAS-No	Weight %
Sodium Hydroxide	1310-73-2	0-1

### Section 5 - First Aid Measures

Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most important symptoms/effects	Causes burns by all exposure routes. Product is corrosive material. Possible perforation of stomach or esophagus should be investigated if ingested. Do not perform mouth to mouth if ingested. In large amounts at 0.1 N.
Inhalation	Move to fresh air. Do not give mouth to mouth; give artificial respiration if needed

<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>First Aid Facilities</b>	Eyewash, safety shower and washroom.
<b>Notes to Physician</b>	Treat symptomatically. Symptoms may be delayed.

## Section 6 - Fire Fighting Measures

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable extinguishing Media

No information available.

### Hazardous Combustion Products

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours.

### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 7 - Accidental Release Measures

### Emergency procedures

Ensure adequate ventilation.

### Environmental Precautions

See Section 13 for additional ecological information.

Do not flush into surface water or sanitary sewer system.

### Methods for Containment and Clean Up

Limit all unnecessary personal contact.

Use inert absorbant material. Keep in suitable, closed containers for disposal.

### Reference to Other Sections

Refer to protective measures listed in Sections 9 and 14.

## Section 8 - Handling and Storage

### Precautions for Safe Handling

Ensure adequate ventilation.

Limit all unnecessary personal contact.

Wash hands with soap and water following use.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Corrosives area.

AS/NZS 2243.10:2004, Safety in Laboratories - Storage of chemicals

## Section 9 - Exposure Controls and Personal Protection

### Exposure limits

Workplace Exposure Standards and Biological Exposure Indices (8th edition). New Zealand Department of Labour

Component	New Zealand WEL
Sodium Hydroxide	Ceiling: 2 mg/m <sup>3</sup>

## Biological limit values

Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (8th edition). New Zealand Department of Labour.

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

## Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

## Personal protective equipment

Eye Protection	Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications).
Hand Protection	Protective gloves.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of respiratory protective devices.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

## Section 10 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Clear Colourless
Physical State	Liquid
Odour	No information available
Odour Threshold	No data available
pH	>12
Melting Point/Range	No data available
Softening Point	No data available
Boiling Point/Range	100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable - Liquid
Explosion Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Specific Gravity / Density	No data available
Bulk Density	Not applicable
Water Solubility	Soluble
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	Not applicable
Component	<b>log Pow</b>
Ethyl alcohol	No data available

Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidising Properties	No information available
<b>Other information</b>	
Molecular Formula	NaOH
Molecular Weight	40

## Section 11 - Stability and Reactivity

Reactivity	None known, based on information available
Stability	Stable under normal conditions
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition, strong acids
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerisation	No information available

## Section 12 - Toxicological Information

### Information on Toxicological Effects Product Information

<b>a) acute toxicity;</b>	
Oral	Category 5
Dermal	Based on available data, the classification criteria are not met
Inhalation	Based on available data, the classification criteria are not met
<b>(b) skin corrosion/irritation;</b>	Based on available data, the classification criteria are not met
<b>(c) serious eye damage/irritation;</b>	Based on available data, the classification criteria are not met
<b>(d) respiratory or skin sensitisation;</b>	No data available
Respiratory	No data available
Skin	No data available
<b>(e) germ cell mutagenicity;</b>	No data available
<b>(f) carcinogenicity;</b>	There are no known carcinogenic chemicals in this product
<b>(g) reproductive toxicity;</b>	No data available
<b>(h) STOT-single exposure;</b>	No data available
<b>(i) STOT-repeated exposure;</b>	No data available
Target Organs	No information available
<b>(j) aspiration hazard;</b>	No data available
Symptoms / effects, both acute and delayed	Causes burns by all exposure routes. Product is corrosive material. Possible perforation of stomach or esophagus should be investigated if ingested. Do not perform mouth to mouth if ingested. In large amounts at 0.1N.

## Section 13 - Ecological Information

Ecotoxicity effects	Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.
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<b>Persistence and Degradability</b>	
<b>Persistence</b>	Persistence is unlikely, based on information available.
<b>Degradation in sewage</b>	Contains no substances known to be hazardous to the environment or not degradable in waste
<b>Treatment plant</b>	Water treatment plants
<b>Bioaccumulative Potential</b>	Bioaccumulation is unlikely
<b>Mobility</b>	The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.
<b>Endocrine Disruptor Information</b>	This product does not contain any known or suspected endocrine disruptors
<b>Persistent Organic Pollutant</b>	This product does not contain any known or suspected substance
<b>Ozone Depletion Potential</b>	This product does not contain any known or suspected substance

The product contains following substances which may be hazardous for the environment:

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium Hydroxide	LC50: = 45.4 mg/L, 96hr static (Oncorhynchus mykiss)			

## Section 14 - Disposal Considerations

### Waste from Residues / Unused Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations.

Assure conformity with all applicable regulations.

### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

### Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations.

Do not dispose of waste into sewer.

Waste codes should be assigned by the user based on the application for which the product was used.

Large amounts will affect pH and harm aquatic organisms.

## Section 15 - Transport Information

### IMDG/IMO

UN-No Not regulated

Proper Shipping Name

Hazard Class

Packing Group

### NZS 5433:2012

UN-No Not regulated

Proper Shipping Name

Hazard Class

## Packing Group

### IATA

UN-No Not regulated

Proper Shipping Name

Hazard Class

Packing Group

Environmental hazards Harmful to aquatic organisms at higher concentrations

Special Precautions No special precautions required

Additional information None known

## Section 16 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	HSNO Approval Number
Sodium Hydroxide 0.1N	HSR001587

## Section 17 - Other Information

### Legend

**WEL** - Workplace Exposure Limit

**POW** - Partial Coefficient Octanol:Water

**LC50** - Lethal Concentration 50%

### Key literature references and sources for data

Suppliers safety data sheet, EPA, NZTA, NZ Safety

For a correlation of GHS and HSNO classes and categories refer to:

<http://www.epa.govt.nz/publications/hsnogen-ghs-nz-hazard.pdf>

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

**Revision Date:** 17/08/2020

**Revision Summary:** Update toxicology

**Version:** 3

**Owner:** Laboratory Manager

### Disclaimer

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