

Product Name: Sodium Hydroxide Solution**Part No / SKU:** RXSOL-40-1308-050**Date of Issue:** September 24, 2026**Document Type:** Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Hydroxide Solution
Part Number	RXSOL-40-1308-050

Company Details:....

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	Cas No	Concentration: (%)
Sodium Hydroxide	1310-73-2	30 - 60

3. HAZARDS IDENTIFICATION

Signal Word	Danger
Hazard Statements	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statements	Prevention: Keep only in original container. Wear protective gloves/ protective clothing/ eye protection/ face protection. Wash skin thoroughly after handling. Do not breathe dusts or mists. Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store in corrosive resistant container with a resistant inner liner. Store locked up. Disposal: Dispose of contents/ container to an approved waste disposal plant.
Other hazards	None known.

4. FIRST AID MEASURES

In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766). Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	See Section 11 for more detailed information on health effects and symptoms.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Special hazards during firefighting	Not flammable or combustible.
Hazardous combustion products	Decomposition products may include the following materials: None known
Special Protective Equipment	Use personal protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Hazchem Code	2R

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental Precaution	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

7. HANDLING AND STORAGE

Advice on safe handling	Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Suitable material	The following compatibility data is suggested based on similar product data and/or industry experience: Stainless Steel 304, Stainless Steel 316L, HDPE (high density polyethylene), MDPE, EPDM, Neoprene, Nitrile, Perfluoroelastomer, PTFE, TFE, FEP (encapsulated), Fluoroelastomer
Unsuitable material	The following compatibility data is suggested based on similar product data and/or industry experience: Carbon steel

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sodium Hydroxide	1310-73-2	Peak limit	2 mg/m ³	AU OEL
Sodium Hydroxide	1310-73-2	WES-Ceiling	2 mg/m ³	NZ OEL
Sodium Hydroxide	1310-73-2	Ceiling	2 mg/m ³	ACGIH
		Ceiling	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection	Safety goggles Face-shield
Hand protection	Wear the following personal protective equipment: Butyl rubber Nitrile Neoprene Fluoroelastomer Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Inorganic gas/vapour type
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Colorless
Odour	None
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	Freezing Point: 8 °C
Initial boiling point and boiling range	143 °C, Method: ASTM D 86
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower explosive limits	No data available
Autoignition temperature	No data available
Vapour pressure	1.5 mm Hg, (20 °C), ASTM D 323,
Relative vapour density	No data available
Viscosity	No data available
Density	12.47 lb/gal
Relative Density	1.48 - 1.54, (25 °C), ASTM D-1298
Water solubility	Completely soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Thermal decomposition	No data available
Viscosity, dynamic	100 mPa.s (20 °C), Method: ASTM D-2983
Viscosity, kinematic	40 mm ² /s (20 °C)
Molecular weight	No data available
VOC	0 %, 0 g/l

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	None known.
Incompatible materials	Strong acids
Hazardous decomposition products	In case of fire, hazardous decomposition products may be produced such as: None known

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Inhalation, Eye contact, Skin contact
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Potential Health Effects

Eyes	Causes serious eye damage.
Skin	Causes severe skin burns.
Ingestion	Causes digestive tract burns.
Inhalation	May cause nose, throat, and lung irritation.
Chronic Exposure	Health injuries are not known or expected under normal use.

Experience with human exposure

Eyes contact	Redness, Pain, Corrosion
Skin contact	Redness, Pain, Corrosion
Ingestion	Corrosion, Abdominal pain
Inhalation	Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity	No data available
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive effects	No reproductive toxic effects expected.
Germ cell mutagenicity	Contains no ingredient listed as a mutagen
Teratogenicity	No data available
STOT - single exposure	No Data Available
STOT - repeated exposure	No data available
Aspiration toxicity	No aspiration toxicity classification

Human Hazard Characterization

Based on our hazard characterization, the potential human hazard is: High

12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects	This product has no known ecotoxicological effects.
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Product

Toxicity to fish	LC50 Fathead Minnow: > 10,000 mg/l Exposure time: 48 hrs Test substance: Product LC50 Fathead Minnow: > 10,000 mg/l Exposure time: 96 hrs Test substance: Product NOEC Fathead Minnow: 10,000 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	LC50 Ceriodaphnia dubia: 2,332 mg/l Exposure time: 48 hrs Test substance: Product NOEC Ceriodaphnia dubia: 1,296 mg/l Exposure time: 48 hrs Test substance: Product
Toxicity to algae	No data available

Persistence and degradability

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air : 5%

Water : 30 - 50%

Soil : 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

No data available

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

13. DISPOSAL CONSIDERATIONS

Disposal methods	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport

Proper shipping name	SODIUM HYDROXIDE SOLUTION
UN/ID No.	UN 1824
Transport hazard class(es)	8
Packaging group	II
Hazchem Code	2R

Air transport (IATA)

Proper shipping name	SODIUM HYDROXIDE SOLUTION
UN/ID No.	UN 1824
Technical name(s)	
Transport hazard class(es)	8
Packaging group	II

Sea transport (IMDG/IMO)

Proper shipping name	SODIUM HYDROXIDE SOLUTION
UN/ID No.	UN 1824
Technical name(s)	
Transport hazard class(es)	8
Packaging group	II

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons	Schedule 6.
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INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory	On or in compliance with the active portion of the TSCA inventory
Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)	All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)
Canadian Domestic Substances List (DSL)	The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).
Japan. ENCS - Existing and New Chemical Substances Inventory	All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).
Korea. Korean Existing Chemicals Inventory (KECI)	All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).
China Inventory of Existing Chemical Substances	All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.
Taiwan Chemical Substance Inventory	All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

16. OTHER INFORMATION AND DISCLAIMER

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY : The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
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