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

Company Details:....

# **RX MARINE INTERNATIONAL**

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Pure substance/mixture : Mixture

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

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 protectiveequipment as required.Notes to physicianTreat symptomatically.Most important symptoms and effects, both acute anddelayedSee Section 11 for more detailed information on health effects and symptoms.

Suitable extinguishing mediaUse extinguishing measures that are appropriate to local circumstances and the surrounding environment.Unsuitable extinguishing mediaNone known.Special hazards during firefightingNot flammable or combustible.

Hazardous combustion

productsDecomposition products may include the following materials: None knownSpecial Protective EquipmentUse personalprotective equipment.Specific extinguishing methodsFire residues and contaminated fire extinguishing water must be disposed of inaccordance with local regulations.Hazchem Code2R

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.

Advice onsafe handlingDo 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 storageDo not store near acids. Keep outof reach of children. Keep container tightly closed. Store in suitable labelled containers.Suitable materialThe following compatibility datais 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), FluoroelastomerUnsuitable materialThefollowing compatibility data is suggested based on similar product data and/or industry experience: Carbon steelThe

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		of exposure	Per	Basis						
	Sodium Hydroxide 1310-73-2 Peak limit		2 mg/m3	AU OEL	Sodium Hydroxide		1310-73-2	WES-	Ceiling		
2	mg/m3	NZ OEL	Sodium H	ydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH		Ceiling	2
mg/m3	8 NIO	SH REL		TWA	2 mg/m3	OSHA Z1	En	gineering measure	s : Effe	ctive exhau	ist
ventila	tion syste	m. Maintain air	concentrations	below occupa	ational exposure	standards.	Persor	al protective equip	ment		Eye
protect	tion	Safety goggle	es Face-shield		Hand protection		Wear the fo	lowing personal pr	otective equi	pment:	
Βι	Butyl rubber Nitrile Neoprene Fluoroelastomer Gloves should be discarded and replaced if there is any										
indicat	ion of deg	radation or che	mical breakthro	ugh.	Skin p	rotection	Persona	I protective equipm	nent comprisi	ng: suitable	e
protect	tive gloves	s, safety goggle	s and protective	e clothing	Resp	ratory protect	ction	Refer to AS/NZS 1	715 and AS/	NZS 1716 1	or
selecti	on, use ar	nd maintenance	of respiratory p	protective equ	ipment as appli	cable. When	workers are	facing concentration	ons above th	e exposure	limit
they m	iust use ap	opropriate certif	ied respirators.	Inorganic ga	s/vapour type	ŀ	lygiene mea	sures Hand	dle in accorda	ance with g	ood
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.											
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.											

	Appearance	Liquid	Colour	Colorless	Odour	None	Odor Th	reshold	No data	available	
pН	No data av	ailable M	Aelting point/fr	eezing point	Freezing P	oint: 8 °C	Initial bo	iling point	and boiling	range	143 °C,
Method	: ASTM D 86	Flash Po	int Not ap	plicable	Evaporatio	n Rate	No data availal	ole	Flammabi	ility (solid, g	as)
No d	lata available	Upper/lov	ver explosive l	mits No c	lata available	Au	utoignition tempe	rature	No data a	vailable	
Vapo	our pressure	1.5 mm Hg, (2	20 °C), ASTM I	D 323,		Re	elative vapour de	ensity	No data av	ailable	
Visc	osity No da	ata available	Dens	ity 12.47	lb/gal	Relative D	ensity 1.48	- 1.54, (25	5 °C), ASTN	1 D-1298	
Wate	er solubility	Completely solu	uble S	olubility in oth	er solvents	No data	available	Partition	coefficient:	n-octanol/v	vater
No d	lata available	Thermal	decompositior	No data	available	Viscos	sity, dynamic	100 mPa	a.s (20 °C),	Method: AS	TM
D-2983	B Visco	sity, kinematic	40 mm2/s	(20 °C)	Molecular w	eight I	No data available	e	voc d	) %, 0 g/l	

 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
 None known

Information on likely routes of exposure Inhalation, Eye contact, Skin contact

## Potential Health Effects

EyesCauses serious eye damage.SkinCauses severe skin burns.IngestionCauses digestivetract burns.InhalationMay cause nose, throat, and lung irritation.Chronic ExposureHealth injuries are not known orexpected 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

## 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 NOEC Fathead Minnow: 10,000 Test substance: Product mg/l Exposure time: 96 hrs Test substance: Product Toxicity to daphnia and other aquatic invertebrates I C50 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 defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and product under the Water : 30 - 50% Soil : 50 - 70% soil/sediment in the approximate respective percentages; Air : The portion in water is expected to be soluble or dispersible. Bioaccumulative potential This preparation or material is not expected to bioaccumulate. Other ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION information No data available Based on our hazard characterization, the potential environmental hazard is: Low

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

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 SO		SODIUM I	SODIUM HYDROXIDE SOLUTION				UN/ID No.	UN 1824
Transp	ransport hazard class(es) 8 Packaging group		П	Hazchem (	Code	2R				
Air transpo	ort (IATA)									
Proper shipping name SODIUM H		SODIUM HYD	YDROXIDE SOLUTION		UN/ID No. UN 1824		Technical name(s)			
Tran	sport hazard class(es)	8	Packag	Packaging group						
Sea transp	oort (IMDG/IMO)									
Pr	oper shipping name	SODIUM HYD	ROXIDE SOLL	ITION		UN/ID No.	UN 182	4	Technical r	name(s)
Tran	sport hazard class(es)	8	Packag	jing group	Ш					

Standard for the Uniform Scheduling of Medicines and Poisons Schedule 6.

INTERNATIONAL CHEMICAL CONTROL LAWS :

On or in compliance with the active portion of the TSCA inventory United States 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 ZealandAll substances in this product comply with the HazardousSubstances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.TaiwanChemical Substance InventoryAll substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

## 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 weassume 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 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.

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