

## 1. Product and Company Identification

www.rxmarine.com

Product Name : RXSOL-19-1498-005

Product Type : Caustic Soda Flake

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

**Stock Points: Mumbai, Kandla, Kolkata, Vishakhapatnam, Chennai, Fujairah, Muscat Kenya, Canada**

Phone : +91 22 65113333 / 5555 / 9999 / 27611360

Fax : +91 22 2781 1318 ::::AOH :0091 9821214367

Email : [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

www.rxmarine.com

Name	CAS #	% by Weight
Sodium Hydroxide	1310-73-2	100

Toxicological Data on Ingredients: Sodium hydroxide LD50: Not available. LC50: Not available.

## 3. Hazards Identification

www.rxmarine.com

### Potential Acute Health Effects:

Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant, corrosive), of ingestion, of inhalation. The amount of tissue depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, reddening, or, occasionally, blistering.

### Potential Chronic Health Effects :

Carcinogenic Effects	Not available.
Mutagenic Effects	Mutagenic for mammalian somatic cells.
Teratogenic Effects	Not available.
Developmental Toxicity	Not available.

The substance may be toxic to mucous membranes, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

## 4. First Aid Measures

www.rxmarine.com

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be harmful to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

## 5. Fire-fighting Measures

[www.rxmarine.com](http://www.rxmarine.com)

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	metals
<b>Explosion Hazards in Presence of Various Substances:</b>	
Risks of explosion of the product in presence of mechanical impact	Not available.
Risks of explosion of the product in presence of static discharge	Not available.
Slightly explosive in presence of heat.	
Fire Fighting Media and Instructions	Not available

### Special Remarks on Fire Hazards:

sodium hydroxide + zinc metal dust causes ignition of the latter. Under proper conditions of temperature, pressure and state of division, it can ignite or react with acetaldehyde, allyl alcohol, allyl chloride, benzene-1,4-diol, chlorine trifluoride, 1,2 dichloroethylene, nitroethane, nitromethane, nitroparaffins, nitrocinamaldehyde, 2,2-dichloro-3,3-dimethylbutane. Sodium hydroxide in contact with water may generate enough heat to ignite adjacent combustible materials. Phosphorous boiled with NaOH yields mixed phosphines which may ignite spontaneously in air. sodium hydroxide and cinnamaldehyde + heat may cause explosion. Reaction with certain metals releases flammable and explosive hydrogen gas.

### Special Remarks on Explosion Hazards:

Sodium hydroxide reacts to form explosive products with ammonia + silver nitrate. Benzene extract of allyl benzenesulfonate prepared from allyl alcohol, and sulfonyl chloride in presence of aqueous sodium hydroxide, under vacuum distillation, residue darkened and exploded. Sodium Hydroxide + impure tetrahydroborate which can contain peroxides, can cause serious explosions. Dry mixtures of sodium hydroxide and sodium tetrahydroborate liberate hydrogen explosively at deg. C. Sodium Hydroxide reacts with sodium salt of trichlorophenol + methyl alcohol + trichlorobenzene + heat to cause an explosion.

## 6. Accidental Release Measures

[www.rxmarine.com](http://www.rxmarine.com)

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.
Large Spill	Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## 7. Handling and Storage

[www.rxmarine.com](http://www.rxmarine.com)

Precautions	Keep container dry. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatible materials such as oxidizing agents, reducing agents, metals, acids, alkalis, moisture.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic. Deliquescent.



nitrides (e.g. potassium nitride, sodium nitride), nitriles (e.g. acetonitrile, methyl cyanide), nitro compounds (organic e.g. nitrobenzene, nitromethane), anhydride, chlorohydrin, chlorosulfonic acid, ethylene cyanohydrin, glyoxal, hydrosulfuric acid, oleum, propiolactone, acylonitrile, phosphorus pentachloroethanol, chloroform-methanol, tetrahydroborate, cyanogen azide, 1,2,4,5 tetrachlorobenzene, cinnamaldehyde. Reacts with formaldehyde hydroxide, formic acid, and hydrogen.

Special Remarks on Corrosivity

Very caustic to aluminum and other metals in presence of moisture.

Polymerization

Will not occur.

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

Routes of Entry Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals

LD50

Not available.

LC50

Not available.

### Chronic Effects on Humans:

Mutagenic Effects

Mutagenic for mammalian somatic cells. May cause damage to the following organs: mucous membranes, upper respiratory tract, skin, eyes.

### Other Toxic Effects on Humans:

Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion, .

Special Remarks on Toxicity to Animals:

Lowest Published Lethal Dose:

LDL [Rabbit] - Route

Oral; Dose: 500 mg/kg

Special Remarks on Chronic Effects on Humans: May affect genetic material. Investigation as a mutagen (cytogenetic analysis)

Special Remarks on other Toxic Effects on Humans:

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

Ecotoxicity

Not available.

BOD5 and COD

Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic

Special Remarks on the Products of Biodegradation: Not available.

## 13. Disposal considerations

[www.rxmarine.com](http://www.rxmarine.com)

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

DOT Classification: Class 8: Corrosive material

Identification: : Sodium hydroxide, solid UNNA: 1823 PG: II

Special Provisions for Transport: Not available.

## 15. Regulatory information

[www.rxmarine.com](http://www.rxmarine.com)

Federal and State Regulations:

Illinois toxic substances disclosure to employee act

Sodium hydroxide

Illinois chemical safety act

Sodium hydroxide

New York release reporting list

Sodium hydroxide

Rhode Island RTK hazardous substances	Sodium hydroxide
Pennsylvania RTK	Sodium hydroxide
Minnesota	Sodium hydroxide
Massachusetts RTK	Sodium hydroxide
New Jersey	Sodium hydroxide
Louisiana spill reporting	Sodium hydroxide
California Director's List of Hazardous Substances	Sodium hydroxide
TSCA 8(b) inventory	Sodium hydroxide
CERCLA: Hazardous substances.: Sodium hydroxide: 1000 lbs. (453.6 kg)	
Other Regulations:	
OSHA	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS	This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications:	
	WHMIS (Canada): CLASS E: Corrosive solid.
DSCL (EEC):	
R35- Causes severe burns.	
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
S37/39- Wear suitable gloves and eye/face protection.	
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
<b>HMIS (U.S.A.):</b>	
	Health Hazard 3
	Fire Hazard 0
	Reactivity 2
	Personal Protection J
	Health 3
	Flammability 0
	Reactivity 1
Specific hazard:	
Protective Equipment:	Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/ certified respirator equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## 16. Other information

[www.rxmarine.com](http://www.rxmarine.com)

References: Not available.

Other Special Considerations: Not available.

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 ScienceLab.com 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 ScienceLab.com 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