

1. Product and Company Identification

www.rxmarine.com

Product Name Sodium Chlorate
Part Number RXSOL-91-2977-050

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

Branch : Kandla, Hazira, Mumbai, Vizag, Chennai, KolkatA, Fujairah UAE & Muscat Oman

Phone +91 22 27815540 /41 / 42
Fax +91 22 27815543 ::AOH :0091 9821214367
Email 123@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Name of Substance	Cas Number	EC Number	Wight %
Sodium Chlorate	7775-09-9	231-887-4	100%

3. Hazards Identification

www.rxmarine.com

Signal Word	Danger
Hazard Statements	H271 May cause fire or explosion; strong oxidizer. H302 Harmful if swallowed. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P221 Take any precaution to avoid mixing with combustibles. P273 Avoid release to the environment.
Precautionary statements response	Get medical attention/advice if you feel unwell Skin : IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell . Fire : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire: Use CO2, dry chemical, or foam for extinction. Disposal : Dispose of contents/container to an approved waste disposal plant.

4. First Aid Measures

www.rxmarine.com

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flushes 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.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Get medical

Ingestion:

attention immediately if symptoms occur.

Notes to Physician

Do not induce vomiting. Obtain medical attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

Treat symptomatically

5. Fire-fighting Measures

www.rxmarine.com

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media

No information available

Flash Point

No information available

Method

No information available

Explosion Limits Upper

No information available

Explosion Limits Lower

No information available

Oxidizing Properties

Oxidizer

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. Decomposes violently at elevated temperatures. Thermal decomposition can lead to release of irritating gases and vapors. May ignite combustibles (wood, paper, oil, clothing, etc.). Hazardous Combustion Products Hydrogen chloride gas, Chlorine. Chlorine Sodium oxides.

Protective Equipment and Precautions for Firefighters

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

6. Accidental Release Measures

www.rxmarine.com

Personal Protection :

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Keep container tightly closed in a dry and well-ventilated place. Keep combustibles (wood, paper, oil, etc) away from spilled material. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and Storage

www.rxmarine.com

Handling

Wear personal protective equipment. Ensure adequate ventilation. Keep away from clothing and other combustible materials. Avoid dust formation. Do not breathe dust. Wash hands before breaks and immediately after handling the product.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

Advice

Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

www.rxmarine.com

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limit established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that

Personal Protective Equipment

Exposure Limit



Gloves Suit

eyewash stations and safety showers are close to the workstation location

Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166 or any similar standard.

Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

www.rxmarine.com

Form	Solid
Colour	Off -White
Odour	Odourless
Odor Threshold	Not Applicable
pH	5 -7 at 50 g/l 20 °C
Melting Point	255 °C (decomposition)
Boiling Point	Not Applicable
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No Data Available
Explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour Density	No Data Available
Density	2.49 g/cm ³ at 15 °C
Relative Density	No information available.
Water Solubility	Water solubility 1,000 g/l at 20 °C
Auto-ignition temperature	No information available.
Decomposition temperature	265 - 300 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	The substance or mixture is classified as oxidizing with the category 1.
Bulk density	ca.1,500 kg/m ³
Molecular Formula	Cl Na O ₃
Molecular Weight	106.44

10. Stability and reactivity

www.rxmarine.com

Reactivity	Mechanical sensitivity (friction), sensitive to shock
Stability	The product is chemically stable under standard ambient conditions (room

Possibility of hazardous reactions

temperature) .

Risk of explosion with:
powdered aluminium, ammonium compounds, combustible substances, Cyanides, CALCIUM HYDRIDE, fats, rubber, Powdered metals, Sulphides, phosphorus, oils, oxidisable substances, magnesium, hypophosphites, Nitrobenzene, silicon, metallic oxides, Alkaline earth metals, semimetals, semimetallic oxides, organic nitro compounds, thiocyanates

charcoal, Release of:, Oxygen

sulfur, Release of:, Oxygen

Acids, Release of:, chlorine dioxide

sulphur dioxide, Release of:, chlorine dioxide

Risk of ignition or formation of inflammable gases or vapours with:
Arsenic oxides

Avoid shock and friction. Strong heating.

No information available

Products

in the event of fire: See section 5.

Conditions to avoid

Incompatible materials

Hazardous Polymerization

11. Toxicological information

www.rxmarine.com

Information on toxicological effects

Acute oral toxicity : LD50 Rat: 1,200 mg/kg
(RTECS)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity Symptoms: mucosal irritations

Acute dermal toxicity : LD50 Rabbit: > 10,000 mg/kg
(RTECS)

Skin irritation :slight irritation

Eye irritation : slight irritation

Sensitisation : This information is not available.

Germ cell mutagenicity. Genotoxicity in vitro

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(RTECS)

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity : This information is not available.

Teratogenicity : This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure :This information is not available.

Aspiration hazard :This information is not available.

Further information

After absorption:

Systemic effects:

Methaemoglobinemia

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

www.rxmarine.com

Toxicity

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 1,750 mg/l; 96 h
(IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 1,093 mg/l; 24 h
(IUCLID)

Toxicity to algae

Persistence and degradability	IC5 Scenedesmus quadricauda (Green algae): 3.8 mg/l (IUCLID)
Bioaccumulative potential	No information available. Partition coefficient: n-octanol/water log Pow: -7.18 (calculated) (Lit.) Bioaccumulation is not expected.
Mobility in soil	No Information available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	Additional ecological information Biological effects: Herbicide Discharge into the environment must be avoided.

13. Disposal considerations

www.rxmarine.com

Disposal considerations	Waste treatment methods Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
-------------------------	---

14. Transport information

www.rxmarine.com

DOT

UN	Number	UN1495
Proper shipping name		SODIUM CHLORATE
Hazard Class		5.1
Packing group		II

TDG

UN	Number	UN1495
Proper shipping name		SODIUM CHLORATE
Hazard Class		5.1
Packing group		II

IATA

UN	Number	UN1495
Proper shipping name		SODIUM CHLORATE
Hazard Class		5.1
Packing group		II

IMDG/IMO

UN	Number	UN1495
Proper shipping name		SODIUM CHLORATE
Hazard Class		5.1
Packing group		II

15. Regulatory information

www.rxmarine.com

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

National legislation
Storage class 5.1A

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

HMIS

Health Hazard	: 2
Fire Hazard	: 0
Reactivity	: 3
Personal Protection	: 1

16. Other information

www.rxmarine.com

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.