Material Safety Data Sheet

Sodium Carbonate (RXSOL-12-2485-050)

1. Product and Company Identifaction

Product Name	Sodium Carbonate
Part Number	RXSOL-12-2485-050

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Visakhapatnam, Fujairah, Oman

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Wt. %	Molecular Formula	Molar Mass
Sodium Carbonate	497-19-8	207-838-8	99.99 - 100%	Na?CO?	105.99 g/mol

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H319 Causes serious eye irritation.
Potential Chronic Health Effects	Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage
Precautionary statements - response	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4. First Aid Measures

General Note	Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
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. Cold water may be used. Get medical attention.
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 if irritation develops and persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Serious Ingestion: Not available.

5. Fire-fighting Measures

Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	Emits Na2O fumes when heated to decompositon.
Explosion Hazards in Presence of Various Substances:	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.
Special Remarks on Fire Hazard	Sodium carbonate can ignite and burn fiercely in contact with fluoride. Sodium Carbonate in contact with fluorine decomposed at ordinary temperature with incandescence.
Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6. Accidental Release Measures

Small Spillage	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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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.
Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Handling and Precaution	Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids.
Storage	Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).
Advice on general occupational hygiene	Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

Engineering Controls:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Exposure Limits:	Particulate Not Otherwise Classified: ACGIH — OSHA 10 mg/m³ - Inhalable particulate — 50 mppcf* or 15 mg/m³ - Total Dust 3 mg/m³ - Respirable particulate — 15 mppcf* or 5 mg/m³ - Respirable Fraction
Other Protection Measure	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.




Gloves Suit

9. Physical and chemical properties

Form	Powder
Colour	White
Odour	Odourless
Solubility	Soluble in water
Soluble in water	212.5 g/lat 20 °C
Specific Gravity (20 °C	2.532 (Water = 1)
pH (1% Solution)	11.50 (Basic)
Boiling Point	Not Applicable
Melting Point	851°C (1563.8°F)
Critical Temperature	Not Available
Flash Point	Not Applicable
Explosive limits	Not explosive Materials
Vapour pressure	Not Applicable
Vapour Density	Not Applicable
Viscosity	Not Applicable
Partition coefficient	Not Determine
Explosive properties	None
Flamibility Solid / Gas	This Product is not Flammable

10. Stability and reactivity

Recativity	Violent reactions
Stability	Product is stable.
Possibility of hazardous reactions	Aluminium, Alkaline earth metals, organic nitro compounds, Fluorine, Alkali metals, nonmetallic oxides, conc. sulfuric acid .
Conditions to avoid	No Information Available
Incompatible materials	No Information Available
Hazardous combustion products	No information Available.

11. Toxicological information

Route of Entry Inhalation. Ingestion

Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 4090 mg/kg [Rat]. Acute toxicity of the dust (LC50): 1200 mg/m3 2 hours [Mouse].
Chronic Effects on Humans	May cause damage to the following organs: upper respiratory tract, skin, eyes.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Special Remarks on Toxicity to Animals	LDL (Lowest Published Lethal Dose) [Man] - Route: Oral; Dose: 714 mg/kg
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects based on animal test data
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation with possible burns depending on the concentration, site (abraded or intact skin), and duration of exposure. Eyes: Causes eye irritation and possible burns. Concentrated solutions may cause permanent corneal injury (permanent corneal opacity). Ingestion: Sodium carbonate ingestion may cause irritation of the digestive tract resulting in nausea, vomiting, diarrhea, thirst, abdominal pain depending on concentration and amount ingested. May also affect the cardiovascular system . Inhalation: Dust may cause respiratory tract and mucous membrane irritation with coughing and shortness of breath (dyspnea), pulmonary edema. Chronic Potential Health Effects: Chronic inhalation may result in decreased pulmonary function, nasal congestion, nosebleeds, perforation of the nasal septum. Other effects of chronic exposure are skin (dermatitis and ulceration), and gastrointestinal complaints. However, the effects of chronic exposure seem to be reversible if exposure is decreased.

12. Ecological information

Toxicity	Toxicity to fish :static test LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l; 96 h (ECHA) Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 Ceriodaphnia dubia (water flea): 220 - 227 mg/l; 48 h
Process of degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Bioaccumulative potential	Partition coefficient: n-octanol/water.Not applicable
Mobility in soil	No Information available.
Results of PBT and vPvB assessment	Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

Waste treatment	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

DOT Classification	Not a DOT controlled material (United States).
Identification	Not Applicable
Special Provisions for Transport	Not Applicable

15. Regulatory information

Fedral and State Regulation	TSCA 8(b) inventory: Sodium carbonate
Other Regulations informationWater pollution effect indication	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
WHMIS (Canada):	CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCL (EEC)	R36/37/38- Irritating to eyes, respiratory system and skin. S22- Do not breathe dust. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

HMIS (U.S.A.)	Health Hazard: 2 Fire Hazard: 0 Reactivity: 1 Personal Protection: E
National Fire Protection Association	Health: 2 Flammability: 0 Reactivity: 1
Protective Equipment:	Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. Other information

Precautionary statements
Response
P305 + P351 + P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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 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.