

**MATERIAL SAFETY DATA SHEET**

Product Name: Sodium carbonate

CAS No.: 497-19-8

Version: 1

**1. Identification**

**Product Code** : 90239, 90545, 91124, 91304  
**Company Name** : Advent Chembio Private Limited  
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**Company Phone Number** : 022-27690837

**2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent
SODIUM CARBONATE	497-19-8	99- 100.5%

**3. Hazards Identification****Hazard classification****Health hazards**

Acute toxicity (Inhalation - dust and mist) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2

Specific target organ toxicity - single exposure : Category 3

**Unknown toxicity**

Acute toxicity, dermal : 100 %

**Unknown toxicity**

Chronic hazards to the aquatic environment : 100 %

**Labels elements****Hazard symbol**

**Signal word** : Warning.

**Hazard statement** : Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

**Precautionary statement**

**Prevention** : Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective

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- gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.
- Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment.
- Storage:** : Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : None.

## 4. First Aid Measures

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Rinse mouth. Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Apply artificial respiration if victim is not breathing. If breathing is difficult, give oxygen. Get medical attention.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.
- Most important symptoms/effects, acute and delayed** : Harmful if inhaled. Harmful if swallowed. Causes serious eye irritation.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed.

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**5. Fire fighting measures****General fire hazards** : No unusual fire or explosion hazards noted.**Suitable (and unsuitable) extinguishing media****Suitable extinguishing media** : Use fire-extinguishing media appropriate for surrounding materials.**Unsuitable extinguishing media** : None known.**Specific hazards arising from the chemical** : None known.**Special protective equipment and precautions for firefighters****Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.**Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.**Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Stop leak if you can do so without risk. Inform authorities if large amounts are involved.**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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## 7. Handling and Storage

- Precautions for safe handling** : Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Store locked up.

## 8. Exposure Controls Personal Protection

**Control parameters**

**Occupational exposure limits** : None of the components have assigned exposure limits.

**Appropriate engineering controls** : No data available.

**Individual protection measures, such as personal protective equipment**

**General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

**Eye/face protection** : Wear safety glasses with side shields (or goggles).

**Hand protection** : Chemical resistant gloves.

**Other** : Wear suitable protective clothing and gloves.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.

**Hygiene measures** : Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and Chemical Properties

<b>Appearance</b>	:	White Solid Powder.
<b>Odor</b>	:	Odorless
<b>pH</b>	:	11.4 - 11.7 (25 °C) Aqueous solution
<b>Melting point/freezing point</b>	:	851 °C
<b>Initial boiling point and boiling range</b>	:	Decomposes
<b>Flash Point</b>	:	No data available
<b>Vapor pressure</b>	:	No data available

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<b>Vapor density</b>	:	No data available
<b>Relative density</b>	:	2.53 (20 °C)
<b>Solubility in water</b>	:	Soluble
<b>Solubility (other)</b>	:	No data available.
<b>Formula</b>	:	CH <sub>2</sub> O <sub>3</sub> .2Na
<b>Molecular Weight</b>	:	105.99 g/mol.

## 10. Stability and Reactivity

<b>Reactivity</b>	:	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	:	Stable; however, may decompose if heated.
<b>Possibility of hazardous reactions</b>	:	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	:	Excessive heat. Moisture.
<b>Incompatible materials</b>	:	Strong oxidizing agents. Strong acids. Aluminum.
<b>Hazardous decomposition products</b>	:	Sodium oxides Carbon monoxide Carbon dioxide .

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	:	May be harmful if swallowed.
<b>Inhalation</b>	:	Irritating to respiratory system.
<b>Skin contact</b>	:	Causes skin irritation.
<b>Eye contact</b>	:	Causes serious eye irritation.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product</b>	:	LD 50 (Rat): 4,090 mg/kg.
<b>Dermal Product</b>	:	No data available.
<b>Inhalation Product</b>	:	LC 50 (Mouse, 2 h): 1.2 mg/l LC 50 (Guinea pig, 2 h): 0.8 mg/l
<b>Repeated dose toxicity Product</b>	:	No data available.
<b>Skin corrosion/irritation Product</b>	:	May cause skin irritation.
<b>Serious eye damage/eye irritation Product</b>	:	Causes serious eye irritation.
<b>Respiratory or skin sensitization Product</b>	:	Not a skin sensitizer.
<b>Carcinogenicity Product</b>	:	This substance has no evidence of carcinogenic properties.
<b>IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE</b>	:	No carcinogenic components identified.

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<b>US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE</b>	:	No carcinogenic components identified.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	:	No carcinogenic components identified.
<b>Germ cell mutagenicity</b>	:	
<b>In vitro Product</b>	:	No mutagenic components identified.
<b>In vivo Product</b>	:	No mutagenic components identified.
<b>Reproductive toxicity Product</b>	:	No data available.
<b>Specific target organ toxicity - single exposure Product</b>	:	Respiratory tract irritation.
<b>Specific target organ toxicity - repeated exposure Product</b>	:	No data available.
<b>Aspiration hazard Product</b>	:	Not classified
<b>Other effects</b>	:	None known.

**12. Ecological Information****Ecotoxicity****Acute hazards to the aquatic environment :**

<b>Fish Product</b>	:	LC 50 (Bluegill ( <i>Lepomis macrochirus</i> ), 96 h): 300 mg/l
<b>Aquatic invertebrates Product</b>	:	EC 50 (Water flea ( <i>Ceriodaphnia dubia</i> ), 48 h): 156.6 mg/l

**Chronic hazards to the aquatic environment :**

<b>Fish Product</b>	:	No data available.
<b>Aquatic invertebrates Product</b>	:	No data available.
<b>Toxicity to Aquatic Plants Product:</b>	:	No data available.

**Persistence and degradability**

<b>Biodegradation Product</b>	:	Expected to be readily biodegradable.
<b>BOD/COD ratio Product</b>	:	No data available.

**Bioaccumulative potential**

<b>Bioconcentration factor (BCF) Product</b>	:	No data available on bioaccumulation.
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<b>Partition coefficient n-octanol / water (log Kow) Product</b>	:	No data available.
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<b>Mobility in soil</b>	:	The product is water soluble and may spread in water systems.
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<b>Other adverse effects</b>	:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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## 13. Disposal consideration

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>			Not regulated.		
<b>IMDG</b>			Not regulated.		
<b>IATA</b>			Not regulated.		

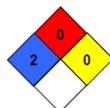
## 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

## 16. Other Information

### NFPA Hazard ID



■ Flammability  
■ Health  
■ Reactivity  
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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