

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM CARBONATE

CAS Number: 497-19-8

1. IDENTIFICATION:

Product Code : 90239, 90545, 91124, 91304, 98965

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. 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 : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.



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Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.

- Response** : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Storage** : Store in a dry & well-ventilated place. Keep container tightly closed.
- 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.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Sodium Carbonate	497-19-8	99 - 100.5%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Get medical attention if symptoms persist.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- 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** : Symptoms may be delayed. Treat symptomatically.



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5. FIRE FIGHTING MEASURES:

General information : No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media : Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical : Carbon oxides, sodium oxides Development of hazardous combustion gases or vapors possible in the event of fire.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

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 : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a 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. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

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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. Use explosion-proof ventilation equipment.**Eye/face protection** : Wear safety glasses with side shields (or goggles).**Hand protection** : Chemical resistant gloves.**Other** : Wear suitable protective clothing.**Respiratory protection** : In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.**Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance** : White hygroscopic granular powder.**Odor** : Odorless**Solubility in water** : Soluble**Solubility** : No data available.**Formula** : Na_2CO_3 **Molecular Weight** : 105.99 g/mol**Specific Gravity** : 2.53 (20 °C)**pH** : 11.4 - 11.7 (25 °C) Aqueous solution**% Volatiles by volume @ 21C (70F)** : No data available.**Boiling Point** : 1.600 °C - (decomposition)**Melting Point** : 851°C



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Flash Point : No data available.
Vapor Density (Air=1) : No data available.
Vapor Pressure (mm Hg) : No data available.
Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : The product is chemically stable under standard ambient conditions (room temperature).
hygroscopic
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Excessive heat. Moisture.
Incompatible materials : Strong oxidizing agents. Acetaldehyde. Acids. Chlorine. Ethylene Oxide
Hydrogen peroxide (H₂O₂) Sulfuric acid. Isocyanates. Aluminum.
Hazardous decomposition products : Sodium oxides Carbon monoxide Carbon dioxide.

11. TOXICOLOGICAL INFORMATION:**Information on likely routes of exposure**

Ingestion : May be harmful if swallowed.
Inhalation : May cause irritation to the mucous membranes and upper respiratory tract. May cause
central nervous system effects
Skin contact : Causes mild skin irritation
Eye contact : Causes serious eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product : LD50 Oral - Rat - male and female - 2.800 mg/kg
Dermal Product : LD50 Dermal - Rabbit - > 2.000 mg/kg
Inhalation Product : LC 50 (Mouse, 2 h): 1.2 mg/l
: LC 50 (Guinea pig, 2 h): 0.8 mg/l
Repeated dose toxicity Product : No data available.
Skin corrosion/irritation Product : May cause skin irritation.
Serious eye damage/eye irritation Product : Irritating to eyes.
Respiratory or skin sensitization Product : Not a skin sensitizer.

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Carcinogenicity Product	:	This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	:	No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens	:	No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity	:	No carcinogenic components identified.
In vitro Product	:	No data available.
Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	:	Respiratory tract irritation.
Specific target organ toxicity - repeated exposure Product	:	None known.
Aspiration hazard Product	:	No data available.
Other effects	:	None known.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product : LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 300 mg/l

Aquatic invertebrates Product : EC 50 (Water flea (*Ceriodaphnia dubia*), 48 h): 156.6 mg/l

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : Expected to be readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential



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- Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.
- Partition coefficient n-octanol / water (log Kow) Product** : No data available.
- Mobility in soil** : The product is water soluble and may spread in water systems.
- Other adverse effects** : 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.

13. DISPOSAL CONSIDERATION:

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
- 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
DOT	NA	Sodium Carbonate		Not dangerous goods	
IMDG	NA	Sodium Carbonate		Not dangerous goods	
IATA	NA	Sodium Carbonate		Not dangerous goods	

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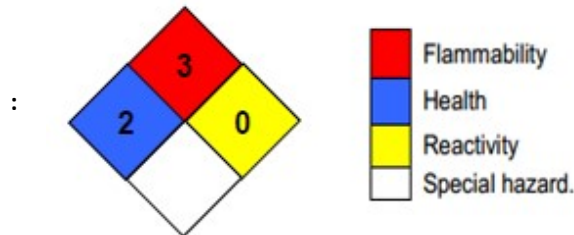
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15. REGULATORY INFORMATION:

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



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

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