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# **MATERIAL SAFETY DATA SHEET**

Product Name: Barium carbonate CAS No.: 513-77-9 Version: 0

#### 1. Identification

**Product Code** : 90338

Company Name : Advent Chembio Private Limited

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# 2. Composition/Information on Ingredients

IngredientCAS NoPercentBARIUM CARBONATE513-77-999- 100%

#### 3. Hazards Identification

**Hazard classification** 

Health hazards

Acute toxicity (Oral) : Category 3

Labels elements Hazard symbol



Signal word : Danger

**Hazard statement** : Toxic if swallowed.

**Precautionary statement** 

**Prevention**: Wash hands thoroughly after handling. Do not eat, drink or smoke

when using this product.

**Response**: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Rinse mouth.

**Storage** : 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.





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#### 4. First Aid Measures

Get medical advice/attention if you feel unwell. If medical advice is **General information** 

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Call a physician or poison control center immediately. Rinse mouth. **Ingestion** 

> 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. Call a physician or poison control center

immediately. If breathing stops, provide artificial respiration.

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.

Immediately flush with plenty of water for at least 15 minutes. If Eye contact

easy to do, remove contact lenses. Get medical attention

immediately.

Most important symptoms/effects,

acute and delayed

**Indication of immediate medical** attention and special treatment

needed

Toxic if swallowed.

Treat symptomatically. Symptoms may be delayed.

#### 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

Specific hazards arising from the

chemical

None known.

Fire may produce irritating, corrosive and/or toxic gases.

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. Cool containers exposed to flames with water until well after the fire is out.

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.





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#### 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** 

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. 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

: Use personal protective equipment as required. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. Avoid contact with skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

## 8. Exposure Controls Personal Protection

### **Control parameters**

Occupational exposure limits

Chemical identity	Type	<b>Exposure Limit</b>	Source	
		values		
BARIUM CARBONATE - as Ba	TWA	0.5 mg/m3	US. ACGIH Threshold Limit Values (2011)	
	REL	0.5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)	





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PEL	0.5 mg/m3	US. OSHA Table Z-1 Limits for Air	
		Contaminants (29 CFR 1910.1000) (02 2006)	
TWA	0.5 mg/m3	US. OSHA Table Z-1-A (29 CFR	
		1910.1000) (1989)	

**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) and a face shield.

**Hand protection** : Chemical resistant gloves.

Other : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator.

**Hygiene measures** : Provide eyewash station and safety shower. Observe good industrial

hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not eat, drink or smoke when

using the product. Avoid contact with eyes, skin, and clothing.

#### 9. Physical and Chemical Properties

**Appearance** : White Solid Powder.

Odor : Odorless

**pH** : No data available.

**Melting point/freezing point** : 811 °C **Initial boiling point and boiling** : 1,300 °C

range

Flash Point : Not applicable

**Vapor pressure** : Estimated 0.01 kPa (25 °C)

**Vapor density** : No data available. **Relative density** : 4.3 (20 °C)

**Solubility in water** : Practically Insoluble **Solubility (other)** : No data available.

**Formula** : CO<sub>3</sub>.Ba **Molecular Weight** : 197.37 g/mol





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## 10. Stability and Reactivity

Reactivity No dangerous reaction known under conditions of normal use.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous reactions Hazardous polymerization does not occur.

**Conditions to avoid** Excessive heat. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents. Acids.

Thermal decomposition may release oxides of carbon. **Hazardous decomposition products** 

### 11. Toxicological Information

## Information on likely routes of exposure

Toxic if swallowed. **Ingestion** 

Mist or vapors may cause irritation. **Inhalation** 

Skin contact May cause irritation. **Eve contact** May cause irritation.

Information on toxicological effects

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

**Oral Product** LD 50 (Rat): 418 mg/kg

**Dermal Product** No data available. **Inhalation Product** No data available. No data available. **Repeated dose toxicity Product Skin corrosion/irritation Product** May cause skin irritation.

Serious eye damage/eye irritation

**Product** 

May irritate eyes.

Respiratory or skin sensitization

**Product** 

Not a skin sensitizer.

**Carcinogenicity Product** This substance has no evidence of carcinogenic properties.

IARC Monographs on the

**Evaluation of Carcinogenic Risks** 

to Humans DIOXANE

**US. National Toxicology Program** 

(NTP) Report on Carcinogens

**DIOXANE** 

**US. OSHA Specifically Regulated** Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product No mutagenic components identified In vivo Product No mutagenic components identified No components toxic to reproduction **Reproductive toxicity Product** 

No carcinogenic components identified.

No carcinogenic components identified

No carcinogenic components identified.





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Specific target organ toxicity -

single exposure Product

Specific target organ toxicity repeated exposure Product

**Aspiration hazard Product** 

Other effects

No data available.

No data available.

Not classified. None known.

## 12. Ecological Information

**Ecotoxicity** 

Acute hazards to the aquatic environment:

**Fish Product** No data available.

**Specified substance(s):** BARIUM LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 6,950

**CARBONATE** 

mg/l Mortality No data available. **Aquatic invertebrates Product** 

**Chronic hazards to the aquatic environment:** 

**Fish Product** No data available. No data available. **Aquatic invertebrates Product Toxicity to Aquatic Plants Product: :** No data available.

Persistence and degradability

**Biodegradation Product** The product is not expected to be biodegradable.

**BOD/COD** ratio Product No data available.

**Bioaccumulative potential** 

**Bioconcentration factor (BCF)** 

Product

Partition coefficient n-octanol /

water (log Kow) Product

Mobility in soil No data available.

Other adverse effects The product components are not classified as environmentally

No data available.

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. 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.

Since emptied containers retain product residue, follow label **Contaminated packaging** 

warnings even after container is emptied.

No data available on bioaccumulation.



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#### 14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	UN 1564	BARIUM CARBONATE	6.1	III	No
IMDG	UN 1564	BARIUM CARBONATE	6.1	III	No
IATA	UN 1564	BARIUM CARBONATE	6.1	III	No

## 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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