MATERIAL SAFETY DATA SHEET (MSDS)

Soda Ash (Sodium Carbonate)

1. Product Identification

Product Name	Soda Dense
Chemical Name	Sodium Carbonate
Synonyms	Soda Ash , Disodium Carbonate
Chemical Formula	Na_2CO_3
CAS Number	497-19-8
Recommended Uses	Glass industry, detergents, chemical industry, metallurgy, flue gas purification
Restrictions	Not for food, pharma, feed, or cosmetic applications
Supplied By	Cosmo Chemistry India Pvt. Ltd.
Address	Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India – 395006
Email	info@cosmochemistryindia.com
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2. Hazard Identification

GHS Classification

- Acute Toxicity Category 5
- Eye Irritation Category 2A

Signal Word	Warning

Hazard Statements

- H303: May be harmful if swallowed.
- H319: Causes serious eye irritation.

Precautionary Statements

- Wash thoroughly after handling.
- Wear eye/face protection.
- In case of eye contact: rinse cautiously with water for several minutes.
- Remove contact lenses if present and easy to do.
- Seek medical advice if irritation persists.

3. Composition / Information on Ingredients

Component	CAS No.	Concentration
Sodium Carbonate	497-19-8	99–100%

4. First Aid Measures

Inhalation

- Move person to fresh air.
- Seek medical attention if symptoms persist.

Skin Contact

- Wash with soap and water.
- Obtain medical advice if irritation develops.

Eye Contact

- Rinse immediately with plenty of water for at least 15 minutes.
- Remove contact lenses if possible.
- Seek medical attention if irritation continues.

Ingestion

- Rinse mouth with water.
- Do not induce vomiting.
- Contact physician or poison center immediately.

5. Fire Fighting Measures

Flammability	Not combustible
Suitable Extinguishing Media	Use media appropriate for surrounding fire
Special Protective Equipment	Self-contained breathing apparatus and PPE

6. Accidental Release Measures

- Avoid dust generation.
- Wear appropriate PPE.
- Sweep and collect material into suitable containers.
- Prevent release into drains or waterways.
- Avoid mixing with acids in drains.

7. Handling and Storage

Handling

- Ensure adequate ventilation.
- Avoid contact with eyes and skin.
- Minimize dust formation.

Storage

- Store in tightly closed original containers.
- Keep dry.

- Store away from incompatible materials and moisture.

8. Exposure Controls / Personal Protection

Exposure Limit – Sodium Carbonate	TWA: 10 mg/m³

Personal Protective Equipment

Respiratory Protection	P2 particle filter respirator where dust exists
Hand Protection	Nitrile or natural rubber gloves
Eye Protection	Tight-fitting safety goggles
Body Protection	Dust-proof protective clothing

9. Physical and Chemical Properties

Appearance	White powder
Odour	Odourless
pH	11.2–11.3
Melting Point	851°C
Solubility in Water	212.5 g/L at 20°C
Density	2.53
Bulk Density	0.97–1.10 kg/dm³

10. Stability and Reactivity

Stability	Stable under recommended conditions
Conditions to Avoid	Moisture, strong acids
Incompatible Materials	Finely divided aluminium
Hazardous Decomposition	None known

11. Toxicological Information

Oral LD50 (Rat)	2800 mg/kg
Dermal LD50 (Rabbit)	> 2000 mg/kg
Skin Irritation	Mild/none

Eye Irritation	Serious irritation
Carcinogenicity	No data available

Symptoms

- Eye redness and swelling
- Coughing from dust
- Nausea, vomiting, abdominal pain if swallowed

12. Ecological Information

Fish Toxicity LC50	300 mg/L
Daphnia EC50	200–227 mg/L
Bioaccumulation	Not expected
Biodegradability	Not applicable (inorganic substance)

13. Disposal Considerations

- Dispose according to local regulations.
- Neutralize with acid if required.
- Recycling preferred where possible.

14. Transport Information

IMDG	Not regulated
IATA	Not regulated

15. Regulatory Information

Listed on major international chemical inventories including:

- TSCA
- REACH
- DSL
- IECSC
- PICCS

16. Other Information

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