OCHNOLOGY SOLUTION PVT. LTD
Website: www.ochnology.com
Tel: +91 9286823642/43
Address: B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
E-Mail: projects@ochnology.com, bd@ochnology.com

Material Safety Data Sheet (MSDS / SDS)

Soda Ash Dense (Sodium Carbonate) – 99.2% Min

SECTION 1: Identification

Product Name	Soda Ash Dense – Sodium Carbonate, Dense Grade
Synonyms	Soda Ash Dense, Sodium Carbonate Dense, Dense Ash, Na2CO3 Dense
CAS No.	497-19-8
Recommended Use	Industrial sodium carbonate for glass manufacturing, bulk detergent manufacturing, and water treatment
Manufacturer / Supplier	Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
Telephone	+91 9286823642/43
Email	projects@ochnology.com, bd@ochnology.com

SECTION 2: Hazard(s) Identification

GHS Classification: Skin Irritation Category 2 (H315); Eye Irritation Category 2A (H319); Specific Target Organ Toxicity – Single Exposure, Respiratory Irritation Category 3 (H335)

Signal Word: Warning

Hazard Statements:

- H315 – Causes skin irritation
- H319 – Causes serious eye irritation
- H335 – May cause respiratory irritation

Precautionary Statements:

- P261 – Avoid breathing dust
- P264 – Wash hands thoroughly after handling
- P271 – Use only outdoors or in a well-ventilated area
- P280 – Wear protective gloves/eye protection/face protection

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- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P312 – Call a POISON CENTER/doctor if you feel unwell

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration (w/w)
Sodium Carbonate (Na2CO3)	497-19-8	Min. 99.2%
Sodium Chloride (NaCl)	7647-14-5	< 0.6%
Moisture / Insolubles	–	< 0.6% (combined)

SECTION 4: First-Aid Measures

Eye Contact Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present. Seek medical attention promptly – alkaline dust is a significant eye irritant.

Skin Contact Wash with plenty of water and mild soap. Remove contaminated clothing. Seek medical attention if irritation persists.

Inhalation Move to fresh air immediately. If breathing is difficult, give oxygen if trained to do so. Seek medical attention if coughing or respiratory discomfort persists.

Ingestion Rinse mouth with water. Do NOT induce vomiting. Give water to drink if conscious. Seek medical attention immediately.

SECTION 5: Fire-Fighting Measures

- Non-flammable, non-combustible inorganic solid; does not itself burn
- Suitable extinguishing media: use media appropriate to the surrounding fire (water spray, CO2, dry chemical, foam)
- No specific fire hazard from soda ash itself; product may decompose at very high temperatures releasing sodium oxides

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- Fire-fighters should wear self-contained breathing apparatus (SCBA) in enclosed or dusty fire conditions

SECTION 6: Accidental Release Measures

- Lower dust generation than light grade due to coarser, denser particles, but standard precautions still apply
- Sweep or vacuum (with dust-rated equipment) into a suitable container for reuse or disposal
- Do not flush large spills directly to drains – dissolved soda ash raises pH significantly and should be neutralised/contained first
- Wear appropriate PPE (dust mask, goggles, gloves) during clean-up

SECTION 7: Handling and Storage

- Generates less dust than light grade, but avoid inhaling dust during bulk transfer/conveying
- Avoid contact with eyes and skin; wash hands after handling
- Store in a dry, covered area – product is hygroscopic and will cake if exposed to moisture
- Keep containers/bags tightly closed when not in use
- Keep away from acids – reaction with acids releases CO_2 gas and heat

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits	OSHA/ACGIH: no specific PEL for sodium carbonate; treat as nuisance dust (typically 10 mg/m³ total dust, 8-hr TWA, per general dust limits)
Engineering Controls	Local exhaust ventilation at dust-generating points (bag dumping, conveying, furnace batching)
Eye/Face Protection	Chemical splash goggles recommended when handling
Hand Protection	Chemical-resistant gloves recommended for prolonged/repeated contact
Respiratory Protection	Dust mask (N95 or equivalent) recommended in dusty conditions

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SECTION 9: Physical and Chemical Properties

Property	Unit	Value
Appearance	–	White, granular free-flowing powder
Odour	–	Odourless
pH (1% aqueous solution)	–	≈ 11.2 (strongly alkaline)
Bulk Density	g/cm³	0.95 – 1.10
Solubility in Water	–	Soluble (~21.5 g/100mL at 20°C)
Melting Point	°C	≈ 851
Flash Point	–	Not applicable (non-flammable solid)

SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage, handling and use
- Hygroscopic – absorbs moisture from air, leading to caking if not sealed
- Incompatible materials: strong acids (vigorous reaction releasing CO2 and heat), aluminium (may react with alkaline solutions)
- Hazardous decomposition products: none under normal conditions

SECTION 11: Toxicological Information

- Low acute oral toxicity; moderate irritant to eyes, skin and respiratory tract due to alkalinity
- Lower dust generation than light grade reduces routine inhalation exposure risk in bulk handling

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- Not classified as carcinogenic, mutagenic, or toxic to reproduction based on available information

SECTION 12: Ecological Information

- Not classified as acutely hazardous to aquatic organisms at typical use concentrations, but large releases raise water pH and can harm aquatic life indirectly
- Avoid direct discharge of concentrated solutions or bulk product to waterways
- Readily dissolves and dissociates in water; no bioaccumulation concern (inorganic salt)

SECTION 13: Disposal Considerations

- Dispose of product and packaging in accordance with local, state and national regulations
- Neutralise or dilute before disposal of wash-water where large quantities are involved, to avoid significant pH impact
- Empty bags may retain residual dust – handle and dispose of per label and local regulations

SECTION 14: Transport Information

UN Number	Not applicable – not classified as Dangerous Goods
Proper Shipping Name	Not regulated for transport (IMDG / ADR / IATA / RID)
Transport Hazard Class	Not classified
Packing Group	Not applicable
Environmental Hazards	Avoid bulk release to aquatic environment during transport handling

SECTION 15: Regulatory Information

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- Sodium carbonate is widely listed on major chemical inventories (e.g. TSCA, REACH, ECL) as an existing/registered substance
- Buyers/importers should confirm inventory listing and labelling requirements applicable to their specific jurisdiction and end-use
- Users should ensure workplace labelling and handling comply with locally applicable OSH/GHS regulations

SECTION 16: Other Information

Revision Date: 16 July 2026

This SDS has been compiled based on general industry data and knowledge for Soda Ash (sodium carbonate) products of this type as commercially supplied. It is intended as a general handling and safety guide and does not replace a batch-specific SDS from the manufacturing mill, which should be obtained and reviewed for each shipment where regulatory submission is required.

Disclaimer: This Safety Data Sheet is prepared based on our current knowledge and information believed to be reliable for the product as typically supplied, and is intended as a general guide only. It does not constitute a warranty of any specific properties. Ochnology Solution Pvt. Ltd. reserves the right to modify this document without prior notice. Buyers/users are responsible for determining the suitability of this information for their own use, handling, and disposal practices, and for compliance with applicable laws and regulations in their jurisdiction.