The Worldwide Resource...
Est. 1995

THE BTTCO OVERSEAS

A Govt. of India Recognized *Star Export House*

from local roots to global routes

Material Safety Data Sheet
Soda Ash / Sodium Carbonate

Section 1 - Chemical Product and Company Identification

MSDS Name : Soda Ash / Sodium Carbonate
Chemical Name : Sodium Carbonate
Chemical Family : Inorganic Alkali / Inorganic Salt
Synonyms : Disodium Carbonate, Calcined Soda, Washing Soda (Anhydrous), Soda Crystals (Hydrated Form), Soda Ash Light, Soda Ash Dense
Chemical Formula : Na_2CO_3
Molecular Weight : 105.99 g/mol
CAS No : 497-19-8
UN No : Not Regulated for Transport
Hazchem Code : Not Applicable
ERG No : Not Applicable
EAC : Not Applicable

Company Identification : The BTTCO Overseas
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad – 380009

Telephone Number : +91-94265 96891
Contact Person : Mr. Dinesh Lunkad

Section 2 Composition, Information on Ingredients

Chemical Name	CAS #	Wt. %	EC No.	EC Class
Sodium Carbonate	497-19-8	99.8	207-838-8	Xi, R36

Section 3 Hazards Identification

Emergency Overview : White, odorless, granular solid. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat. May irritate skin and eyes. Dusts may irritate respiratory tract. Not expected to be toxic to the environment, nor to aquatic organisms. Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

Potential Health Effects:

Skin : Prolonged contact may cause skin irritation (red, dry, cracked skin).

Eyes : Irritating to the eyes.

Ingestions : Although low in toxicity, ingestion may cause nausea, vomiting, stomach ache, and diarrhea.

Inhalation : Prolonged inhalation of product dusts may irritate nose, throat, and lungs.

Chronic Effects : Excessive, long-term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Section 4 First Aid Measures

Eye Contact : Immediately flush with water for at least 15 minutes lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.

Skin Contact : Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

Inhalation : Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

Ingestion : Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a doctor or poison control center.

Advice to Physician : While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

Section 5 Fire Fighting Measures

Explosion Hazards : Not applicable.

Fire Hazards / Hazardous Decomposition Products : Carbon dioxide.

Extinguishing Media : Not combustible, use extinguishing method suitable for surrounding fire.

Protection during Fire-fighting : Wear full protective clothing and self-contained breathing Apparatus

Flammable Limits : Not applicable

Auto ignition Temperature : Not applicable

Sensitivity to Impact : None

Sensitivity to Static Discharge : None

Section 6 - Accidental Release Measures

For containment : Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.

Methods for cleaning up : This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 "Disposal Considerations".

General Information : Refer to Section 8 "Exposure Controls / Personal Protection"

Notification Requirements : Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

Section 7 - Handling and Storage

Handling : Use air conveying / mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, pond sand sewer drains. Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solutions can get hot. use good personal hygiene and housekeeping.

Storage conditions : Store in a cool dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls : Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment. Eye wash facility should be provided in storage and general work area.

Personal protective Equipment

Eye & Hand protection : For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses. Otherwise, appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

Skin and body protection : Wear long-sleeve shirt and trousers, and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious (e.g., rubber, neoprene, etc.) gloves when handling solutions.

Respiratory protection : Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by

NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

Exposure Guidelines : Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material:

Particulates Not Otherwise Regulated:
OSHA (PEL / TWA): 15 mg/m3 (total dust); 5 mg/m3 (rasp fraction)
MSHA (PEL / TWA): 10 mg/m3 (total dust)

Other Information : Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

The information noted above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protective equipment (PPE).

Section 9 - Physical and Chemical Properties

Appearance : White, granular solid
Odor : Odorless
Formula : Na2CO3
Molecular Weight:
Bulk Density (g/l) : Dense grades: 0.9 – 1.1
Natural light grade: 0.7 – 0.9
Synthetic light grade: 0.5 – 0.7
Specific Gravity : 2.533 (vs. water)
Boiling Point : Decomposes
Melting Point : 854°C (1569°F)
Evaporation Rate : Not applicable
Percent Volatile : 0%
Vapor Density : Not applicable
Vapor Pressure : Not applicable
pH (1% solution) : 11.3
Flash Point : None

Section 10 - Stability and Reactivity

Stability	: Stable
Conditions to avoid	: Contract with acids will release carbon dioxide, heat. Contract with lime dust in the presence of moisture can produce corrosive sodium hydroxide.
Incompatibility with various substances	: May react with aluminum, acids, fluorine, lithium, and 2,4,6 Trinitrotoluene.
Polymerization	: Will not occur.
Hazardous decomposition Products	: When heated to decomposition, carbon dioxide is released.
Other Precautions	: When dissolving, add to water cautiously and with stirring; solutions can get hot.

Section 11 - Toxicological Information

Eye	: Severe irritant (50 mg, rabbit).
Skin	: Mild irritant (500 mg/24hr, rabbit). Minor irritation may occur on abraded skin. Not a sensitizer (tested at 0.25% solution).
Oral	: LD_{50}, rat: 4,090 mg/kg
Inhalation	: LC_{50}, rat, 2hr 2.3 mg/l 24 – hour LC_{50}: 800 mg/m^3, 20 h exposure (guinea pig) (moderate toxicity)
Chronic	: Excessive, long-term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.
Carcinogenicity	: Not designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Section 12 - Ecological Information

Acute ecotoxicity : 96–hour LC_{50}: 265–565 mg/l (daphnia magnia) (low toxicity)
300 – 320 mg/l (blue gill sunfish) (low toxicity)
96 – hour TL_m: 1200 mg/l (mosquito-fish)
48 – hour TL_m: 840 mg/l (mosquito-fish)
48 – hour EC_{50}: 265 mg/l (daphnia magnia)
5 Day EC_{50}: 242 mg/l (Nitszcheria linearis)

Chronic ecotoxicity : 7 Day EC, biomass: 14 mg/l (phytoplankton)

Mobility : Air: Not Applicable.
Water: Considerable solubility and mobility.
Soil / sediments: Non-significant adsorption.

Abiotic degradation : Water (hydrolysis): degradation's products: carbonate (pH>10) / carbonic acid / carbon dioxide (pH<6).
Soil: Hydrolysis as a function of pH.

Biotic degradation : Aerobic / anaerobic: Not applicable (inorganic compound

Potential for Bioaccumulation : Not applicable (ionizable inorganic compound)

Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment.

Section 13 - Disposal Considerations

Waste Disposal : When this product is discarded or disposed of, as purchased, it is neither a characteristic nor a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

Section 14 - Transport Information

DOT/IATA/IMDG/IMO

Proper Shipping Name	: Not regulated
UN No	: Not applicable
CAS No	: 497-19-8
EMS No	: Not Applicable
ERG No	: Not Applicable
EAC	: Not Applicable
IMDG-Packaging Group	: Not Applicable
Marine Pollutant	: No
Class	: Not Classified as Dangerous Goods
Packing Group	: Not Applicable
Subsidiary Risks	: None
Label Required	: None

Section 15 -Regulatory Information

UNITED STATES:

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances: 40CFR355, Appendix A	Not listed
Section 311 Hazard Class 40CFR370	Immediate (acute)
Section 312 Threshold Planning Quantity (TPQ) 40CFR370	No TPQ listed for sodium carbonate.
Section 313 Reportable Ingredients 40CFR372	Not listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act): 40CFR302.4 – There is no listed RQ (reportable quantity) for this product.

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory of Chemical Substances. No other TSCA rules affect this product.

State Regulations: This product does not contain any components that are regulated under California Proposition 65.

Other : Clean Water Act (CWA) – Section 301/ 311: Not listed
Clean Air Act (CAA) – Section 112: Not regulated

CANADA:

WHMIS Classification:	D2B Toxic Class E Corrosive Symbol:  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Ingredient Disclosure List	Listed
DSL Status (Domestic substances list)	Listed on DSL

EUROPEAN UNION:

EINECS Inventory	Listed: 207-838-8
Annex I (Substances Directive)	Listed: 011-005-00-2 Xi, R-36 (See label details in Section 16)
Greman Water Classification	hazard class 1, low hazard to waters
EU - Food Additives Directive (95/2/EC) - Annex I - Generally Permitted for Use in Foodstuff	E500

INTERNATIONAL:
This product is also found on the chemical inventories of Australia, China, Korea, Japan and the Philippines.

Section 16 - Other Information

HMIS (Hazardous Material Identification System) Rating

Health	2
Flammability	0
Physical Hazard	0
Personal Protection (PPE)	B

Protection = B (Safety glasses and gloves)
4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal

NFPA (National Fire Protection Association System)

Health	2
Flammability	0
Reactivity	0
Special	None

4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

EC Labeling

Name of substance to appear on label.	Soduim Carbonate
Symbol(s)	Xi – irritating 
Label Phrases	R36: Irritating to eyes. S2: Keep out of reach of children. S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Other Information : Soda ash is produced in three principal grades: Dense, natural light and synthetic light soda ash. When these products are mixed in water they may be known as liquid soda ash. These grades differ only in physical characteristics such as bulk density and size and shape of particles, which influence flow characteristics and angle of repose. Other physical properties, as well as chemical as chemical properties of solutions, are common to each grade of soda ash.

Disclaimer:
This document is provided solely as a guideline for the safe handling of the material by trained and qualified personnel using this product. Users are responsible for evaluating the suitability of the information for their specific applications and conditions of use. Although the information and recommendations contained herein are believed to be accurate and reliable as of the date of issue, BTTCO GROUP makes no representations or warranties regarding their completeness or accuracy and assumes no liability for any loss, damage, or consequences resulting from reliance on this information.

Date: 01.04.2026
Place: Ahmedabad, Gujarat, India

6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad-380 009
Phone: +91 79 2640 6891, 2644 6891, 2646 6891 * +91 942 659 6891 /+91 982 500 0547
Email: sales@bttcogroup.com Website: www.bttcogroup.com