



BASP CHEMICAL PRODUCTS LTD.

MATERIAL SAFETY DATA SHEET

SODA ASH – MSDS

Chemical Product and Company Identification

Product Name : Soda Ash
Chemical Name : Sodium Carbonate
Chemical Formula : Na₂CO₃
Distributor : **BASP Chemical Products Limited**
Address : 105/106 Parshwa Chamber, 17/21 Issaji Street, Vadgadi,
Mumbai – 400 003, INDIA
Telephone : (+91)-22-23449557,66312930
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Composition and information of Ingredients

COMPOSITION		
Name	CAS #	% by Weight
Sodium carbonate	497-19-8	100
Toxicological Data on Ingredients: Sodium carbonate: ORAL (LD50): Acute: 4090 mg/kg		

Hazardous Identification

Potential Acute Health Effects: Hazardous in case of direct eye contact (irritant). Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion or inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS :Not available.
MUTAGENIC EFFECTS :Not available.
TERATOGENIC EFFECTS :Not available.
DEVELOPMENTAL TOXICITY :Not available.



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The substance may be toxic to upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.

First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

In case of skin contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used, washing clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled by mistake, get some fresh air immediately. If the person is not able to breath, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantity of material is swallowed, call a physician immediately

Fire and Explosion Data

Flammability of the Product	:Non-Flammable
Auto – Ignition Temperature	:Not Applicable
Flash Points	:Not Applicable
Flammable Limits	:Not Applicable
Products of Combustion: Emits Na ₂ O fumes when heated to decomposition.	

Fire Hazards in Presence of Various Substances :Not Applicable

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: **Not Available.**



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Risks of explosion of the product in presence of static discharge: Not Available.

Special Remarks on Explosion Hazards: Not Applicable.

Special Remarks on Fire Hazards:

Sodium carbonate can ignite and burn fiercely in contact with fluoride. Sodium Carbonate in contact with fluorine decomposed at ordinary temperature with incandescence

Special Remarks on Explosion Hazards:

Reacts explosively with red-hot aluminum metal. Sodium carbonate + ammonia in arabic gum solution will explode.

Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements

Large Spill

Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Handling and Storage

Precautions: Do not ingest. Do not breath dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or label. Keep away from incompatibles such as acids.

Storage: Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F). Hygroscopic

Exposure Control / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist use ventilation to keep exposure to airborne contaminants below the exposure limit.



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Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved / certified respirator or equivalent gloves.

Personal Protection in case of large Spill: Splash goggles, Full suit, Dust respirator, Boots,

Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist before handling this product.

Exposure Limits: Consult local authorities for acceptable exposure limits

Physical and Chemical Properties

Physical State and appearance:	Solid (Solid Powder)
Odor:	Odorless
Taste:	Alkaline
Molecular Weight:	105.99 g/mole
Color:	White
pH (1% soln/water):	11.5 [Basic]
Boiling Point:	Not Applicable.
Melting Point:	851 Degree C
Critical Temperature:	Not available
Specific Gravity:	Density: 2.532 (Water = 1)
Solubility:	Soluble in hot water, glycerol. Partially soluble in cold water. Insoluble in acetone, alcohol.
Vapor Pressure:	Not applicable.
Vapor Density:	Not applicable.
Volatility:	Not applicable.
Odor Threshold:	Not applicable.
Water / Oil Dist. Coeff.:	Not applicable.
Dispersion Properties:	See solubility in water.
Incompatibility with various substances:	Reactive with acids. Slightly reactive to reactive with moisture.
Corrosivity:	Non-corrosive in presence of glass.
Special Remarks on Corrosivity:	Hot concentrated solutions of sodium carbonate are mildly corrosive to steel.
Solubility in solvents:	Not applicable.



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Stability and Reactivity Data

Stability: Normally unstable (losses available chlorine by 2% on heating @100Degree C.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, moisture.

Incompatibility with various substances: Acids, organic compounds, metal oxides, ammonia, urea and amines etc.

Corrosivity / Harzardous decomposition (Products): Nacent Oxygen, Chlorine, Calcium Chlorate.

Special Remarks on Reactivity: Not applicable.

Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Not Available.

Chronic Effects on Humans: May cause damage to the following organs: upper respiratory tract, skin, eyes.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects based on animal test data.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes skin irritation with possible burns depending on the concentration, site (abraded or intact skin), and duration of exposure. Eyes: Causes eye irritation and possible burns. Concentrated solutions may cause permanent corneal injury (permanent corneal opacity). Ingestion: Sodium carbonate ingestion may cause irritation of the digestive tract resulting in nausea, vomiting, diarrhea, thirst, abdominal pain depending on concentration and amount ingested. May also affect the cardiovascular system . Inhalation: Dust may cause respiratory tract and mucous membrane irritation with coughing and shortness of breath (dyspnea), pulmonary edema. Chronic Potential Health Effects: Chronic inhalation may result in decreased pulmonary function, nasal congestion, nosebleeds, perforation of the nasal septum. Other effects of chronic exposure are skin (dermatitis and ulceration), and gastrointestinal complaints. However, the effects of chronic exposure seem to be reversible if exposure is decreased



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Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself..

Disposal Consideration

Product Disposal:

Untreated SBP waste must never be discharged directly in to the sewers. Review National / Regional regulations.

Packaging Disposal:

Packing material does not get contaminated & can be disposed off by usual methods in accordance with National / Regional requirements.

Transport Information

UN No. & Symbols :Not available.

Road & Rail Transport :Not available.

GGVE / GGVS :Not applicable

IMDG :Not applicable

Air Transport :Not applicable

P Phrases :Not applicable

S Phrases :Not applicable

Regulatory Information

Health and safety information: Sodium carbonate

Other Classifications: Not Applicable



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Protective Equipment:

Gloves, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles

Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall **BASP Chemical Products Limited** be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **BASP Chemical Products Limited** has been advised of the possibility of such damages.