



MATERIAL SAFETY DATA SHEET
SODA ASH

Format No.: F03-E(03-01)

Revision no.: 05

Effective date : 01/07/2020

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1) Identification of the substance / preparation and of the company / undertaking.

Identification of the product :- Soda Ash
 Product Name :- Sodium Carbonate - Light & Dense
 Use of the substance / Preparation :- Used as industrial Raw Material.
 Company / undertaking identification
 Company :- GHCL Limited, Sutrapada-362 275 , Dist - Gir Somnath,
 Gujarat, (India).
 Telephone No. :- 02876 - 263401, 263402, 263403

2) Composition / Information on ingredients

Hazardous ingredients :-
 Name according to EC Directives :-

CAS-No.	EC No.	EC-Index -No.	Classification	Content
Sodium Carbonate				
497 - 19 - 8	207 - 838 - 8	011 - 005 - 00 - 2	Xi; R36	Min 99%

3) Hazards Identification

EMERGENCY OVERVIEW

CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION
 Avoid contact with eyes, skin and clothing. Avoid breathing airborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Amber white powder, slippery when wet. A nuisance dust.

ACUTE EFFECTS:
HEALTH HAZARDS, GENERAL :
 Particulates may cause mechanical irritation to eyes, nose, throat and lungs. Particular inhalation may lead to pulmonary fibrosis, chronic bronchitis, amphysema and bronchinal asthma. Dermatitis and asthma may result from short contact periods.

INHALATION : May be irritating to the respiratory tract if inhaled.
INGESTION : May cause gastric distress, nausea and vomiting if ingested.
SKIN : May be irritating to the skin.
EYES : May be irritating to the eyes.

CHRONIC EFFECTS
CARCINOGENECITY : IARC :Not listed, OSHA : Not regulated: Not listed
ROUTE OF ENTRY Inhalation. Skin and/or eye contact.
TARGET ORGANS Respiratory system, lungs, skin and eyes

4) First aid measures

Ingestion : If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation : In inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
Skin Contact : Flush with plenty of water. Wash clothing before reuse. Thoroughly clean shoes before resale.
Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician
Note to Physician : The chemical of exposure is sodium carbonate, which is alkaline in solution.

5) Fire-fighting measures

Suitable extinguishing media :
 In adaption to materials stored in the immediate neighbourhood.
Special risks : Non-combustible.
Other information : Prevent fire-fighting water from entering surface water or ground water.

6) Accidental release measures

Person-related precautionary measures : Do not inhale vapours / aerosols.
Environmental-protection measures : Do not allow to enter sewerage system.
Procedures for cleaning / absorption : Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

7) Handling and storage

Handling : No further requirements.
Storage : Store in dry place at room temperature away from moisture

8) Exposure controls / personal protection

Personal protective equipment :
 Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection :- Required when vapours / aerosols are generated.
Eye protection :- Required
Hand protection :- In full contact :

Glove material	: Nitrile rubber
Layer thickness	: 0.11 mm
Break through time	: >480 Min
In Splash contact :	
Glove material	: Nitrile rubber
Layer thickness	: 0.11 mm
Break through time	: >480 Min

Industrial hygiene :
 Change contaminated clothing. Application of skin - protective barrier cream recommended.
 Wash hands after working with substance.

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9) Physical and Chemical properties

Form	:-	Powder / Granules	
Colour	:-	Colourless	
Odour	:-	Odourless	
pH Value	:-	(20 C)	~11.6
Melting point	:-		851 Deg Cel
Boiling point	:-		Decomposes
Ignition temperature	:-		not available
Flash point	:-		not available
Explosion limits	:-	Lower	not available
		Upper	not available
Density			Light - 550 to 750 g/l Dense - 951 to 1250 g/l
Solubility in water	:-	(20 C)	Soluble

10) Stability and reactivity

Stability - Stable under recommended storage conditions.

Reactivity - Condition to be avoided:

a. Do not expose to intense heat.

Substances to be avoided:

Keep away from aluminum powder, fluorine, phosphorous pentoxide, sulphuric acid, ammoniacal silver nitrate and molten lithium.

Hazardous decomposition products

Soda ash decomposes at temperature above 1000 dec cel, releasing carbon dioxide gas (CO₂). Carbon dioxide is an asphyxiant and may affect respiration rate or interfere with breathing. The sodium oxide residue sublimates at 1275 deg cel, forming vapors and mists of caustic soda on contact with moisture or water.

11) Toxicological information

Acute toxicity

Eye Severe irritant

Skin - Mild irritant

LD 50 (Oral rat) 4090 mg/kg

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.

Inhalation May cause irritation to the respiratory system

Ingestion May cause discomfort if swallowed

The product should be handled with the care usual when dealing with chemicals.

12) Ecological information

Ecotoxic effects :

Quantitative data on the ecological effect of this product are not available.

Further ecologic data :

No ecological problems are to be expected when the product is handled and used with due care and attention.

13) Disposal Considerations

Waste Treatment Soda Ash is not a listed hazardous waste under 40 CFR 261. However, state and local regulations for waste disposal may be more restrictive. Dispose of waste material as per accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

Packaging treatment: Bags are marked with **Recyclable Logo**. Wherever possible recycling is preferred to disposal or incineration
Clean container with water. Dispose of rinse water in accordance with local & national guidelines.

14) Transport Information

Not subject to transport regulations

15) Regulatory Information

Not subject to EC Directives.

16) Other information

Text of any R phrases referred to under heading 2 :

36 Irritating to eyes.

Reason for alteration

General update.

Regional representation :

Alkali Manufacture Association.