

# MATERIAL SAFETY DATA SHEET

## Sodium Carbonate

### Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Sodium carbonate
<b>Synonyms:</b>	
<b>Company Identification: (INDIA)</b>	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
<b>For information in the INDIA, call:</b>	Tel: +91 - 22 - 2275 5555 / 6184 0000, Fax: +91 - 22 - 2275 5556 / 6184 0001

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
497-19-8	Sodium carbonate	>99%	207-838-8

<b>Hazard Symbols:</b>	XI
	
<b>Risk Phrases:</b>	36

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Irritating to eyes.*

#### Potential Health Effects

<b>Eye:</b>	Causes eye irritation.
<b>Skin:</b>	May cause skin irritation. May be harmful if absorbed through the skin.
<b>Ingestion:</b>	May cause irritation of the digestive tract. May be harmful if swallowed.
<b>Inhalation:</b>	Harmful if inhaled. May cause respiratory tract irritation.

### Section 4 - First Aid Measures

<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin:</b>	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.
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<b>Extinguishing Media:</b>	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
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## Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

<b>Handling:</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
<b>Storage:</b>	Store in a cool, dry place. Store in a tightly closed container. Keep away from acids. Do not get water inside containers.

## Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.	
<b>Exposure Limits</b>	CAS# 497-19-8:

<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear chemical splash goggles. Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Powder
<b>Color:</b>	white granular
<b>Odor:</b>	odorless
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	1600 deg C @760mmHg ( 2,912.00°F)
<b>Freezing/Melting Point:</b>	851 deg C ( 1,563.80°F)
<b>Autoignition Temperature:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	22 g/100ml (20°C)
<b>Specific Gravity/Density:</b>	
<b>Molecular Formula:</b>	Na <sub>2</sub> CO <sub>3</sub>

<b>Molecular Weight:</b>	105.99
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## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Hygroscopic: absorbs moisture or water from the air.
<b>Conditions to Avoid:</b>	Incompatible materials, acids, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents, strong acids, aluminum, fluorine, sulfuric acid, zinc, hydrogen peroxide, lithium, phosphorus pentoxide, 2,4,6-trinitrotoluene, 2,-4-dinitrotoluene.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, toxic fumes of sodium oxide.
<b>Hazardous Polymerization</b>	Has not been reported.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 497-19-8: VZ4050000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 497-19-8:</b> Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, eye: 50 mg Severe; Draize test, rabbit, skin: 500 mg/24H Mild; Inhalation, mouse: LC50 = 1200 mg/m3/2H; Inhalation, rat: LC50 = 2300 mg/m3/2H; Oral, mouse: LD50 = 6600 mg/kg; Oral, mouse: LD50 = 6600 mg/kg; Oral, rat: LD50 = 4090 mg/kg; Other:
<b>Carcinogenicity:</b>	Sodium carbonate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

<b>Other:</b>	Do not empty into drains.
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## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
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## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

## Section 15 - Regulatory Information

<b>European/International Regulations</b>
European Labeling in Accordance with EC Directives
Hazard Symbols: XI
<b>Risk Phrases:</b>
➤ R 36 Irritating to eyes.
<b>Safety Phrases:</b>

- S 22 Do not breathe dust.
- S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

**WGK (Water Danger/Protection)**

- CAS# 497-19-8: 1

**Canada**

- CAS# 497-19-8 is listed on Canada's DSL List

**US Federal**

- TSCA
- CAS# 497-19-8 is listed on the TSCA Inventory.

**Section 16 - Other Information**

<b>MSDS Creation Date:</b>	October 24, 2007
<b>Revision #0 Date</b>	
<b>Revisions were made in Sections:</b>	

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# MATERIAL SAFETY DATA SHEET

## Sodium hydroxide

### Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Sodium hydroxide
<b>Catalog Numbers:</b>	13407-0000, 13407-0010, 13407-0025, 20606-0000, 20606-0010, 20606-0025, 38304-0000, 38304-0010, 38304-0025, 38304-2500, 42433-0000, 42433-0025, 42433-0100, 42433-0250, 42433-5000
<b>Synonyms:</b>	Caustic soda

<b>Company Identification:</b>	Hazel Mercantile Ltd
<b>Company Identification: (INDIA)</b>	701/712A, Embassy Centre, Nariman Point, Mumbai -400 021,
<b>For information in the INDIA, call:</b>	Tel - +91-22-2282 4444

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
1310-73-2	Sodium hydroxide	>97%	215-185-5

<b>Hazard Symbols:</b>	C
	
<b>Risk Phrases:</b>	35

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Causes severe burns.*

#### Potential Health Effects

<b>Eye:</b>	Causes severe eye burns. Causes redness and pain.
<b>Skin:</b>	May be fatal if absorbed through the skin. Causes skin burns. May cause deep, penetrating ulcers of the skin.
<b>Ingestion:</b>	Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. May be harmful if swallowed.
<b>Inhalation:</b>	Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.
<b>Chronic:</b>	Prolonged or repeated skin contact may cause dermatitis.

### Section 4 - First Aid Measures

<b>Eyes:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>Skin:</b>	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure.
<b>Ingestion:</b>	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Notes to Physician:</b>	

### Section 5 - Fire Fighting Measures

<b>General Information:</b>	Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials.
<b>Extinguishing Media:</b>	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

### Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

### Section 7 - Handling and Storage

<b>Handling:</b>	Wash thoroughly after handling. Use with adequate ventilation. Do not allow water to get into the container because of violent reaction. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.
<b>Storage:</b>	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Store under nitrogen.

### Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	
	Use adequate ventilation to keep airborne concentrations low.
<b>Exposure Limits</b>	
	CAS# 1310-73-2:
	United Kingdom, WEL - STEL: 2 mg/m <sup>3</sup> STEL
	United States OSHA: 2 mg/m <sup>3</sup> TWA

	Belgium - TWA: 2 mg/m <sup>3</sup> VLE
	France - VME: 2 mg/m <sup>3</sup> VME
	Germany: 2 mg/m <sup>3</sup> TWA (inhalable fraction)
	Japan: 2 mg/m <sup>3</sup> Ceiling
	Malaysia: 2 mg/m <sup>3</sup> Ceiling
	Spain: 2 mg/m <sup>3</sup> VLA-EC

#### Personal Protective Equipment

<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Pellets
<b>Color:</b>	white
<b>Odor:</b>	odorless
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	1mbar @700 deg C
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	1390 deg C @760mmHg ( 2,534.00°F)
<b>Freezing/Melting Point:</b>	318 deg C ( 604.40°F)
<b>Autoignition Temperature:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Freely Soluble
<b>Specific Gravity/Density:</b>	2.130
<b>Molecular Formula:</b>	HNaO
<b>Molecular Weight:</b>	40

## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions. Absorbs carbon dioxide from the air. Air sensitive. Hygroscopic: absorbs moisture or water from the air.
<b>Conditions to Avoid:</b>	Incompatible materials, exposure to air, acids, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Water, acids, aluminum, carbon dioxide, steel, zinc, tin, hydrogen sulfide.

<b>Hazardous Decomposition Products</b>	Toxic fumes of sodium oxide, hydrogen gas, sodium peroxide fumes.
<b>Hazardous Polymerization</b>	Will not occur.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 1310-73-2: WB4900000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 1310-73-2:</b> Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe; Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe; Draize test, rabbit, skin: 500 mg/24H Severe; Other: Oral, rabbit: LDLO = 500 mg/kg Eye, rabbit: 1mg/30s severe
<b>Carcinogenicity:</b>	Sodium hydroxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

Not available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID
<b>Hazard Class:</b>	8	8	8
<b>UN Number:</b>	1823	1823	1823
<b>Packing Group:</b>	II	II	II

USA RQ: CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ

## Section 15 - Regulatory Information

<b>European/International Regulations</b>
European Labeling in Accordance with EC Directives
Hazard Symbols: C
<b>Risk Phrases:</b>
R 35 Causes severe burns.



**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WGK (Water Danger/Protection)**

CAS# 1310-73-2: 1

**Canada**

CAS# 1310-73-2 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 1310-73-2 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:**

July 26, 2015

**Revision #1 Date**

*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 the company 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 the company has been advised of the possibility of such damages.*

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