Safety Data Sheet

Sodium Carbonate

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03
Canadian Workplace Hazardous Material Information System (WHMIS) 2015
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name:	Sodium Carbonate
Pure substance/mixture	Substance
Chemical Name	Sodium carbonate, anyhydrous. Soda ash; Carbonic acid disodium salt

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Water treatment; ingredient in cleaning/sanitizing products; raw material for glass, paper and chemical manufacturing; pH control.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company:	Huber Soda LLC 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Internet	www.natrium.com
Contact E-Mail	info@natrium.com
1.4. Emergency telephone number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical Hazards	Not classified
Health Hazards	Eye irritation Category 2A
Environmental Hazard	Not classified

2.2. Label elements

Symbols/Pictograms

Signal Word Warning

Hazard Statements Causes serious eye irritation

Precautionary Statements

Prevention Wash hands thoroughly after handling
Wear eye protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Storage Store away from incompatible materials
Keep in a dry place

Disposal Disposal should be in accordance with applicable regional, national and local laws and regulations

Hazards not otherwise classified (HNOC) None known.

SECTION 3: Composition/information on ingredients

Pure substance/mixture Substance

Chemical Name	CAS Number	Weight-%
Sodium Carbonate	497-19-8	>99

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and

	eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.
Eye Contact	Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
Skin Contact	Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a physician if irritation persists.
Ingestion	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a physician if discomfort persists.
Inhalation	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. NOTE TO PHYSICIAN: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.
Aspiration hazard	Not an expected route of exposure.
4.2. Most important symptoms and effects, both acute and delayed	Acute symptoms After inhalation: Dry/sore throat. Coughing. Slight irritation. Exposure to high concentrations: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties. After skin contact: Not irritating. After eye contact: Irritation of the eye tissue. Lacrimation. After ingestion (high quantities): Nausea. Abdominal pain. Irritation of the gastric/intestinal mucosa. Delayed symptoms No known effects.
4.3. Indication of any immediate medical attention and special treatment needed	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO_2).

Unsuitable Extinguishing Media
None known.

5.2. Special hazards arising from the substance or mixture
Product is non-combustible, but thermal decomposition yields carbon dioxide (CO2) and sodium oxide (Na2O). Carbon dioxide is an asphyxiant, and sodium oxide is corrosive.

5.3. Advice for firefighters

Special protective equipment for firefighters
Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

Fire-fighting measures
Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8. Keep unauthorized personnel away.
For non-emergency personnel	Keep unauthorized personnel away.
For emergency responders	Keep unauthorized personnel away. Use personal protection recommended in Section 8.
6.2. Environmental precautions	Contain released substance and transfer into suitable containers. Plug any leaks and cut off the supply. Knock down/dilute dust cloud with water spray. Violent exothermic reaction with acids releases carbon dioxide. Carbon dioxide is heavier than air and will collect in ducts, drains and low lying areas.
6.3. Methods and material for containment and cleaning up	Prevent dust cloud formation. Scoop solid spill into closable containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment with water after handling.
6.4. Reference to other sections	Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities Keep in a dry, cool and well-ventilated place.

Suitable container/equipment material Aluminum. Zinc.

Incompatible materials Keep separated from heat sources, acids, metals, water/moisture.

7.3. Specific end use(s) Water treatment; ingredient in cleaning/sanitizing products; raw material for glass, paper and chemical manufacturing; pH control.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

PNEC (Predicted No Effect Concentration) No information available

DNEL (Derived No Effect Level) No information available

Biological Limit Values No information available

8.2. Exposure controls

Engineering Measures Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).
Skin and Body Protection Wear suitable protective clothing.
Hand Protection Protective gloves. (materials with good resistance: Rubber, PVC).

Respiratory Protection In case of inadequate ventilation wear respiratory protection.
Thermal hazards None known. Wear suitable protective clothing.

Hygiene Measures Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

Environmental Exposure Controls Dispose of in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	
Physical State	Granules or crystalline powder
Color	White
Odor Threshold	None
pH:	11.6 (5% w/v)
Melting Point / Melting Range	851°C (1564°F).
Melting point / Freezing point	Not applicable
Boiling Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not applicable
Upper flammability limit:	--
Lower flammability limit:	--
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	2.5 g/cm3
Relative Density	
Water Solubility	213 g/L @ 20°C.
Partition coefficient	No information available
Autoignition Temperature	Not applicable
Decomposition Temperature	1600°C.
Viscosity	No information available.
Kinematic viscosity	Not applicable
Oxidizing Properties	Not applicable
Particle Size	No information available
VOC Content (%)	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Incompatible materials Dust formation
10.5. Incompatible materials	Acids

	Aluminum Zinc
10.6. Hazardous decomposition products	Carbon dioxide (CO2) Sodium oxide (Na2O).

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

11.1. Information on toxicological effects

Sodium Carbonate

LD50s and LC50s	2300 mg/m^3 Inhalation LC50 Rat 2 h
Oral LD50	2800 mg/kg. Rat
Inhalation LC50	2.3 mg/L. Rat
Serious eye damage/eye irritation	Irritating (rabbit, EPA 16 CFR 1500.42); Highly irritating (rabbit, Equivalent to OECD 405).
Skin Corrosion/Irritation	Not irritating. Rabbit OECD 404
Carcinogenicity	Not listed as a carcinogen.

Respiratory Sensitization	No data available
Serious eye damage/eye irritation	Causes serious eye damage
Skin Corrosion/Irritation	Not classified
Skin Sensitization	No data available
Reproductive Toxicity	No data available.
Carcinogenicity	Not listed as a carcinogen.

Information on Likely Routes of Exposure

Inhalation	Avoid inhalation of the product
Ingestion	Ingestion is not a likely route of exposure
Skin	Prolonged or repeated contact may dry skin and cause irritation
Eyes	Dust contact with the eyes can lead to mechanical irritation
Aspiration hazard	Not an expected route of exposure.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information Not applicable

SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

Sodium Carbonate

Aquatic toxicity	Algae: EC50 = 242 mg/L (5-day exposure).
96-Hour LC50	Bluegill sunfish: 300 mg/L
48-Hour EC50	Ceriodaphnia affinis/dubia 200-227 mg/l

12.2. Persistence and degradability Not expected to persist or bioaccumulate in the environment.

12.3. Bioaccumulative potential No data available.

Bioconcentration factor (BCF) No data available.

12.4. Mobility in soil High potential for movement from soil to groundwater is expected based on aqueous solubility.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

12.7. Other Adverse Effects None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste codes Waste codes should be assigned by the user based on the application for which the product was used

SECTION 14: Transport information

Mode of Transportation (Road, Water, Air, Rail)

TDG -Canada	Not regulated
DOT	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for user Not applicable

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

Global Inventories

Pure substance/mixture Substance

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Sodium Carbonate	497-19-8	-	Contact JM Huber for REACH Regulatory Status	Y	Y	Y	Y	Y	Y	Y	Y	Y	A

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

US Federal Regulations

EPA

Sodium Carbonate

CERCLA	Not a hazardous substance.
SARA 302	Not Listed.
SARA 313	Not Listed

SARA 311/312 Hazardous Categorization
Immediate: Yes. Acute health hazard

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Sodium Carbonate	497-19-8	N	N	N	N	N

Y: Listed ; N: Not Listed

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
This product does not contain any Proposition 65 chemicals

CANADA

WHMIS
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information

Prepared by	Huber Engineered Materials (HEM) Global Regulatory Affairs regulatory.affairs@huber.com
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Revision Number	1.1
Reason for Version	New Format. Revised in entirety. OSHA (Occupational Safety and Health Administration of the US Department of Labor).
Training Advice	Do not handle until all safety precautions have been read and understood
Abbreviations and acronyms	IARC (International Agency for Research on Cancer) IATA (International Air Transport Association) IMDG (International Maritime Dangerous Goods) IUCLID (International Uniform Chemical Information Database) WHMIS (Workplace Hazardous Materials Information System) DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA (Time-Weighted Average) CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))

PPE (Personal Protection Equipment)
NIOSH (National Institute for Occupational Safety and Health)
TDG (Transport of Dangerous Goods) Canada
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)
RQ (Reportable Quantity) (RQ/% in mixture)
STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
DNEL (Derived No Effect Level)
SVHC (Substances of Very High Concern)
BOD (Biochemical oxygen demand)
COD (Chemical oxygen demand)
ICAO (International Civil Aviation Organization)
IMDG (International Maritime Dangerous Goods)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
GHS (Globally Harmonized System)
SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet