

1. Identification

1.1. Product identifier

Product Identity Soda Ash
Alternate Names Sodium Carbonate

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

Intended use Glass manufacturing, chemical manufacturing, pulp and paper, water treatment and pH control, soap and detergent manufacturing, coal treatment, emission control, iron exchange resin regeneration.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name NorthStar Fluids Solutions
P.O. Box 271036
Louisville, Colorado 80027, USA

Emergency
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. International +1-703-527-3887
Customer Service: NorthStar Fluid Solutions (303) 495-3130

2. Hazard(s) identification

2.1. Classification of the substance or mixture

HCS2012(29CFR1910.1200)
Eye irritation, Category 2A

H319: Causes serious eye irritation.

2.2. Label elements

HCS2012(29CFR1910.1200)



Warning

Signal Word



Safety Data Sheet

Soda Ash

SDS Revision Date: 02/22/2017

Hazard Statements

-Warning

-H319

Causes serious eye irritation

[Prevention]:

-P264

Wash face, hands and any exposed skin thoroughly after handling

-P280

Wear protective gloves/protective clothing/eye protection/face protection

[Response]:

-P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

-P337 + P313

If eye irritation persists: Get medical advice/ attention.

[Storage]:

N/A

[Disposal]:

N/A

3. Composition/information on ingredients

Ingredient/Chemical Designations	Weight %	CAS Number	GHS Classification
Carbonic acid sodium salt (1:2)	>= 99	497-19-8	Eye Irrit. 2 (H319)

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

Inhalation

Move to fresh air. If symptoms persist, call a physician.

Eyes

Remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, consult a specialist.

Skin

Wash off with soap and water. If symptoms persist, call a physician.

Ingestion Rinse mouth with water. Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Eyes Causes eye irritation

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Water fog, carbon dioxide, foam, dry chemical.

5.2. Special hazards arising from the substance or mixture

Decomposition in fire may produce toxic gases.

5.3. Advice for fire-fighters

Firefighters should wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

-Avoid dust formation.

Advice for emergency responders

-Sweep up to prevent slipping hazard.

6.2. Environmental precautions

-Prevent from entering sewers, waterways, or low areas.

-Do not flush into surface water or sanitary sewer system

-Prevent any mixture with an acid into the sewer/drain (gas formations).

-Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

-Sweep up and shovel into suitable containers for disposal.

-Keep in properly labeled containers.

-Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse. Use appropriate protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Store away from acids. Store in a cool, dry location. Product has a shelf life of 36 months.

Packaging material

Suitable Material

- Polyethylene
- Woven plastic material.

Unsuitable Material

- Material moisture permeable

7.3. Specific end use(s)

- Contact your supplier for additional information
- This grade of the product is not intended for pharmaceutical, feed or food applications.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Sodium carbonate	497-19-8	Not applicable	Not applicable

8.2. Exposure controls

Engineering Controls

Use in a well ventilated area. Localized ventilation should be used to control dust levels.

Personal Protective Equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Eyes

Dust proof goggles.

Skin

Coveralls

Other Work Practices

Wear suitable gloves (neoprene or natural rubber).

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	<u>Form:</u> powder <u>Physical state:</u> solid <u>Color:</u> white
Odor	Odorless
Odor threshold	No data available
pH	11.2 (4 g/l) (77 °F (25 °C)) 11.3 (10 g/l) (77 °F (25 °C))
Melting point / freezing point	1564 °F (851 °C)
Initial boiling point and boiling range	No data available
Flash Point	No data available
Evaporation rate (Ether = 1)	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure (Pa)	Negligible
Vapor Density	No data available
Solubility in Water	71 g/l (32 °F (0 °C)) 212.5 g/l (68 °F (20 °C))
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity (cSt)	No data available
Density (lbs/gal)	0.97 – 1.10 kg/dm ³ Method: Free flow
9.2. Other information	
Molecular weight	106 g/mol

10. Stability and reactivity

10.1. Reactivity

Not expected to be reactive. Decomposes by reaction with strong acids.

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Exposure to moisture.

10.5. Incompatible materials

Finely divided aluminum.
Strong acids.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

11. Toxicological information

11.1 Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation	May cause respiratory irritation
Eye Contact	Causes eye irritation.
Skin Contact	Prolonged or repeated contact may cause skin irritation.
Ingestion	Irritation of the mouth, throat, and stomach.

Chronic toxicity

No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carbonate	497-19-8	4090 mg/kg (Rat) 2800 mg/kg (Rat)	2210 mg/kg (Mouse) > 2000 mg/kg (Rabbit)	2.3 mg/L (Rat) 2h

Substances	CAS Number	Skin corrosion/irritation
Sodium carbonate	497-19-8	Non-irritating to the skin

Substances	CAS Number	Eye damage/irritation
Sodium carbonate	497-19-8	Irritating to eyes.

Substances	CAS Number	Skin Sensitization
Sodium carbonate	497-19-8	Not classified

Substances	CAS Number	Respiratory Sensitization
Sodium carbonate	497-19-8	No information available

Substances	CAS Number	Mutagenic Effects
Sodium carbonate	497-19-8	In vivo tests did not show mutagenic effects.

Substances	CAS Number	Carcinogenic Effects
Sodium carbonate	497-19-8	No information available.

Substances	CAS Number	Reproductive toxicity
Sodium carbonate	497-19-8	Did not show teratogenic effects in animal experiments.

Substances	CAS Number	STOT - single exposure
Sodium carbonate	497-19-8	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	STOT - repeated exposure
Sodium carbonate	497-19-8	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	Aspiration hazard
Sodium carbonate	497-19-8	Not applicable

12. Ecological information

12.1. Toxicity

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Sodium carbonate	497-19-8	EC50 242 mg/L (Nitzschia)	TLM24 385 mg/L (Lepomis macrochirus) LC50 310-1220 mg/L (Pimephales promelas) LC50 (96h) 300 mg/L (Lepomis macrochirus)	No information available	EC50 265 mg/L (Daphnia magna) EC50 (48h) 200 – 227 mg/L (Ceriodaphnia sp.)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Sodium carbonate	497-19-8	The methods for determining biodegradability are not applicable to

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Sodium carbonate	497-19-8	No information available

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Not Applicable, inorganic substance

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Disposal of wastes Bury in a licensed landfill according to federal, state, and local regulations.
Contaminated packaging Follow all applicable national or local regulations.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not restricted	Not applicable	Not applicable
14.2. UN proper shipping name	Not restricted	Not applicable	Not applicable
14.3. Transport hazard class(es)	DOT Hazard Class: Not applicable	IMDG: Not applicable Sub Class: Not applicable	Air Class: Not applicable
14.4. Packing group	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
IMDG	Not applicable		
14.6. Special precautions for user	Not applicable		

15. Regulatory information

US Regulations	
US TSCA Inventory	All components listed on inventory or are exempt.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311,312) Hazard Class	Acute Health Hazard
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable.

- EPA RCRA Hazardous Waste** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
- California Proposition 65** All components listed do not apply to the California Proposition 65 Regulation.
- MA Right-to-Know Law** Does not apply.
- NJ Right-to-Know Law** Does not apply.
- PA Right-to-Know Law** Does not apply.
- Canadian Regulations**
- Canadian DSL Inventory** All components listed on inventory or are exempt.

16. Other information

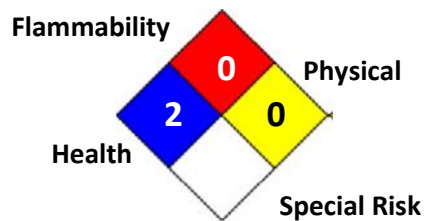
This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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Emergency Overview:

Risk Classification System:

HEALTH	2
FLAMMABILITY	0
PHYSICAL	0
PPE	E



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