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## Section 01 Identification

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<b>Product Identifier</b>	Sodium Carbonate Soda Ash Dense Soda Ash Dense, NSF® - 60 Soda Ash Lite, NSF® - 60
<b>Other Means of Identification</b>	Carbonic acid, dibasic; Soda ash
<b>Product Use and Restrictions on Use</b>	Glass manufacture, detergent manufacture, sodium chemical manufacture, carbonate chemicals manufacture, pulp and paper, brine treatment, water hardness removal, pH adjustment in water or waste water, flue gas desulfurization, coal treatment, ion exchange resin regeneration. This product is NSF certified for use in drinking water, see section 15 and the NSF website for further information.
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7  Phone: 800.387.7503 Fax: 888.281.8109 <a href="http://www.cleartech.ca">www.cleartech.ca</a>
<b>Prepared By</b>	ClearTech Industries Inc. technical writer
<b>24-Hour Emergency Phone</b>	306.664.2522

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## Section 02 Hazard Identification

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### Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

### Health Hazards

**Serious eye damage / eye irritation**      Category 2

### Signal Word

**Warning**

### Hazard Statements

H319 Causes serious eye irritation.

### Pictograms



### Precautionary Statements

## Prevention

- P264 Wash affected body parts thoroughly after handling.  
P280 Wear protective gloves/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. If eye irritation persists: Get medical advice or attention.  
P337 P313

## Hazards Not Otherwise Classified

Not available

## Supplemental Information

Not available

## Section 03 Composition / Information on Ingredients

### Hazardous Ingredients:

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
Carbonic acid disodium salt	Soda ash, sodium carbonate	497-19-8	>99%

## Section 04 First-Aid Measures

### Description of necessary first-aid measures

- Inhalation** Get medical advice / attention if you feel unwell or are concerned.
- Ingestion** Get medical advice / attention if you feel unwell or are concerned.
- Skin contact** Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed. If skin irritation occurs or if you feel unwell: Get medical advice / attention.
- Eye contact** Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15 to 20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice / attention.

### Most important symptoms and effects, both acute and delayed

- Inhalation** May cause respiratory irritation.
- Ingestion** May cause discomfort or nausea.
- Skin contact** May cause redness with prolonged exposure.
- Eye contact** Causes serious eye irritation.
- Further information** For further information see Section 11 Toxicological Information.

## Section 05 Fire Fighting Measures

- Suitable extinguishing media** Extinguish fire using extinguishing agents suitable for the surrounding fire.
- Unsuitable extinguishing media** Water jets are not recommended in fires involving chemicals.
- Specific hazards arising from the chemical** In the event of a fire oxides of carbon may be released.
- Special protective equipment for fire-fighters** Wear NIOSH-approved self-contained breathing apparatus and chemical-protective clothing.

## Section 06 Accidental Release Measures

<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area.
<b>Environmental Precautions</b>	Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.
<b>Methods and Materials for Containment and Cleaning Up</b>	Dry sweeping is not recommended. Pre-dampening the material or use of a vacuum is preferred. Shovel into clean, dry, labeled containers and cover. Flush area with water.

## Section 07 Handling and Storage

<b>Precautions for Safe Handling</b>	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well-ventilated area, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible.
<b>Incompatibilities</b>	Acids, such as sulphuric, nitric, hydrochloric, phosphoric, fluosilicic (HFSA), sulphonic, acetic, citric, oxalic, and formic. Aluminum

## Section 08 Exposure Controls and Personal Protection

### Exposure limits

There are no known exposure limits for this product.

### Engineering controls

<b>Ventilation Requirements</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
<b>Other</b>	An eye wash bottle or eye wash station should be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

### Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

<b>Eye and face protection</b>	Where there is potential eye or face exposure, tightly fitting chemical goggles are recommended. Contact lenses are not recommended; they may contribute to severe eye injury.
<b>Hand and body protection</b>	Where handling this product it is recommended that skin contact is avoided.
<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Thermal hazards</b>	Not available

## Section 09 Physical and Chemical Properties

### Appearance

Physical state	Solid
Colour	White
Odour	Odourless
Odour threshold	Not applicable

### Property

pH	10.9 @ 1%
Melting point / freezing point	851 °C
Initial boiling point and boiling range	Not applicable, decomposes
Flash point	Not applicable
Evaporation rate	Not available
Flammability	Not flammable
Upper flammable limit	Not available
Lower flammable limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	212.5 g/L in water @ 20 °C
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	>400 °C
Viscosity	Not applicable
Specific gravity	Not applicable
Particle characteristics	Particle size: Not available Particle shape: Granules or powder
Formula	Na <sub>2</sub> CO <sub>3</sub>
Molecular weight	105.99 g/mol

## Section 10 Stability and Reactivity

Reactivity	Reacts violently with acids.
Stability	This product is stable if stored according to the recommendations in Section 07.
Possibility of hazardous reactions	Hazardous polymerization is not known to occur.
Conditions to avoid	Avoid contact with incompatible materials.
Incompatible materials	Acids, such as sulphuric, nitric, hydrochloric, phosphoric, fluosilicic (HFSA), sulphonic, acetic, citric, oxalic, and formic. Aluminum
Hazardous decomposition products	Thermal decomposition may produce oxides of carbon.

## Section 11 Toxicological Information

### Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Sodium carbonate	Oral	Rat	2800 mg/kg	
	Inhalation	Various	800-2300 mg/m <sup>3</sup>	2 hours
	Dermal	Rabbit	>2000 mg/kg	

### Toxic Health Effect Summary

<b>Chemical characteristics</b>	Sodium carbonate dissociates and is bioavailable. Primary toxic affect is expected to be pH change.
<b>Skin</b>	May cause redness with prolonged exposure. May cause redness with prolonged exposure.
<b>Ingestion</b>	May cause discomfort or nausea.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Sensitization</b>	This product and its components at their listed concentration have no known sensitizing effects.
<b>Mutagenicity</b>	This product and its components at their listed concentration have no known mutagenic effects.
<b>Carcinogenicity</b>	This product and its components at their listed concentration have no known carcinogenic effects.
<b>Reproductive toxicity</b>	This product and its components at their listed concentration have no known reproductive effects.
<b>Specific organ toxicity</b>	This product and its components at their listed concentration have no known effects on specific organs.
<b>Aspiration hazard</b>	Not available
<b>Synergistic materials</b>	Not available

## Section 12 Ecological Information

### Ecotoxicity

Component	Type	Species	Value	Exposure Time
Sodium carbonate	LC50	Mosquitofish	740 mg/L	96 hours
	EC50	Cladoceran	200 mg/L	48 hours

<b>Biodegradability</b>	The domestic substance list categorizes sodium carbonate as persistent.
<b>Bioaccumulation</b>	The domestic substance list categorizes sodium carbonate as non-bioaccumulative.
<b>Mobility</b>	This product is water soluble, is not predicted to adsorb to soil and may contaminate ground water.
<b>Other adverse effects</b>	Not available

## Section 13 Disposal Considerations

<b>Waste From Residues / Unused Products</b>	Dispose in accordance with all federal, provincial, and local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

## Section 14 Transport Information

<b>UN number</b>	This product does not meet the definition of dangerous goods per Part 2 of Transport of Dangerous Goods Regulations
<b>UN proper shipping name and description</b>	Not available
<b>Transport hazard class(es)</b>	Not available
<b>Packing group</b>	Not available
<b>Excepted quantities</b>	Not available
<b>Environmental hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
<b>Special precautions</b>	No special precautions
<b>Transport in bulk</b>	ERAP index: not available
	MARPOL 73/78 and IBC Code: This product is not listed in Chapter 17 of the IBC Code.
<b>Additional information</b>	Secure containers (full or empty) during shipment and ensure all caps, valves, or closures are secured in the closed position.

**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

## Section 15 Regulatory Information.

**NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

All components of this product appear on the domestic substance list.

NSF Certification: Soda Ash Dense, NSF® - 60 is certified under NSF / ANSI Standard 60 for Corrosion & Scale Control and pH Adjustment at a maximum dosage of: NSF product use restrictions based on requirements obtained from the NSF website; consult NSF website for current requirements.

## Section 16 Other Information

**Date of latest revision: July 21, 2023**

**Note:** The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

### Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

### References:

- 1) *NIOSH Pocket Guide to Chemical Hazards*; U.S. Department of Health and Human Services, <https://www.cdc.gov/niosh/npg/default.html>
- 2) *WorkSafe BC E-Limit*; Workers' Compensation Board of British Columbia, <https://elimit.online.worksafebc.com/>
- 3) *ECHA - Registered Substance Dossier*; European Chemicals Agency, <https://echa.europa.eu/registration-dossier/-/registered-dossier/15432>
- 4) *Transportation of Dangerous Goods Regulations*; Transport Canada, <https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html>
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) *Seventh revised edition*
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007 Edition
- 7) The ACS Style Guide