1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Soda Ash

Other means of Identification

Synonyms: Sodium carbonate, anhydrous; Carbonic acid, disodium salt; Disodium carbonate

Chemical Family: Alkali salt

Recommended use of the chemical and restrictions on use

Recommended Use: Glass manufacture, Personal care, Detergent. Water treatment chemical. Chemical processing

Restrictions on Use: See section 16 for more information

Supplier Address

PRO Chemical & Dye
126 Shove Street
Fall River, MA  02724

Emergency telephone number

800-255-3924 ChemTel.
(United States)
+1  01  813-248-0585
(Outside the United States)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Soda Ash

Serious eye damage/eye irritation

GHS Label elements, including precautionary statements

Warning

Hazard Statements

H319 - Causes serious eye irritation

Precautionary Statements - Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - 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

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

May be harmful if swallowed.
Prolonged or repeated contact may dry skin and cause irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family

Formula

Alkali salt.
Na2CO3

Chemical name

Sodium carbonate

CAS-No

497-19-8

Weight%

100

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact

Wash off with warm water and soap. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention.
Soda Ash

Ingestion

Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Causes serious eye damage / eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

Fumes of sodium oxide. Carbon oxides (COx).

Explosion data

Not sensitive.

Sensitivity to Mechanical Impact

Not sensitive.

Sensitivity to Static Discharge

Not sensitive.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid dust formation. Sweep up to prevent slipping hazard.

Other

For further clean-up instructions, call Emergency Hotline number listed in Section 1 “Product and Company Identification” above.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment

Prevent large quantities of this product from contacting vegetation or waterways. Cover with plastic sheet to prevent spreading. Pick up and transfer to properly labeled containers. Keep in suitable and sealed containers for disposal.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling

Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected. Make sure the locations of the eye washers and safety showers are close to the workstation locations.

Storage

Store in original container. Keep in properly labeled containers. Keep container tightly closed.

Incompatible products

Aluminum. Powdered aluminum. Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply.
Appropriate engineering controls

Engineering measures
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Tightly fitting safety goggles.

Skin and Body Protection
Wear suitable protective clothing. Protective shoes or boots.

Hand Protection
Nitrile rubber, Neoprene gloves

Respiratory Protection
In case of inadequate ventilation wear respiratory protection.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Make sure the locations of the eye washers and safety showers are close to the workstation locations.

General information
These recommendations apply to the product as supplied

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance
Granules

Physical State
Solid

Color
White

Odor
odorless

Odor threshold
Not applicable

pH
1.4 (1 g solution in water)

Melting point/freezing point
851 ºC

Boiling Point/Range
No information available

Flash point
No information available

Evaporation Rate
Non-applicable

Flammability (solid, gas)
Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes

Flammability Limit in Air

Upper flammability limit
No information available

Lower flammability limit
No information available

Vapor pressure
No information available

Vapor density
No information available

Density
2.52

Specific gravity
212.5 g/L @ 20ºC

Water solubility
No information available

Solubility in other solvents
No information available

Partition coefficient
No information available

Auto-ignition temperature
400ºC

Decomposition temperature
No information available

Viscosity, kinematic
No information available

Viscosity, dynamic
No information available

Explosive properties
Not explosive

Oxidizing properties
Non-oxidizing

Molecular weight
105.99

Bulk density
0.90 - 1.2 g/cm³ (Dense grades) 0.70 - 0.90 g/cm³ (Light Grades)

Reactivity
None under normal use conditions.

10. STABILITY AND REACTIVITY
### Chemical Stability
Stable. Decomposes by reaction with strong acid.

### Possibility of Hazardous Reactions
None under normal processing.

### Hazardous polymerization
Hazardous polymerization does not occur.

### Conditions to avoid
Exposure to air or moisture over prolonged periods.

### Incompatible materials

### Hazardous Decomposition Products
Sodium oxides. Carbon oxides (COx).

#### 11. TOXICOLOGICAL INFORMATION

**Product Information**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral</td>
<td>2,800 mg/kg (rat)</td>
</tr>
<tr>
<td>L050 Dermal</td>
<td>&gt; 2,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>LC50 Inhalation</td>
<td></td>
</tr>
</tbody>
</table>

**Eye Contact**
Irritating to eyes.

**Skin Contact**
Non-irritating

**Sensitization**
Patch test on human volunteers did not demonstrate sensitization properties.

**Information on toxicological effects**

**Symptoms**
No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic toxicity**
No known effect.

**Mutagenicity**
No information available.

**Carcinogenicity**
Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

**Reproductive toxicity**
No information available.

**STOT - single exposure**
No information available.

**STOT - repeated exposure**
No information available.

**Aspiration hazard**
No information available.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

<table>
<thead>
<tr>
<th>Active ingredient(s)</th>
<th>Duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>196 h LC50</td>
<td>Bluegill sunfish</td>
<td>1300</td>
<td>mg/l</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>148 h EC50</td>
<td>Ceriodaphnia</td>
<td>100-227</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
Biodegradability does not pertain to inorganic substances.

**Bioaccumulation**
Does not bio-accumulate.

**Mobility**
Dissociates into ions.

**Other Adverse Effects**
None known.

#### 13. DISPOSAL CONSIDERATIONS
Soda Ash

Waste disposal methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.

Contaminated Packaging
Dispose of in accordance with local regulations.

14. TRANSPORTATION INFORMATION

DOT
NOT REGULATED

TDG
NOT REGULATED

ICAO/IATA
NOT REGULATED

IMDG/IMO
NOT REGULATED

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Acute health hazard</th>
<th>Chronic health hazard</th>
<th>Fire hazard</th>
<th>Sudden release of pressure hazard</th>
<th>Reactive Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any Substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

WARNING: This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

U.S. State Right-to-Know Regulations
This product is not listed on state right-to-know regulations

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA (United States)</th>
<th>DSI (Canada)</th>
<th>EINECS/ELINCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECI (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate 497-19-8 (100)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Mexico - Grade
Moderate risk, Grade 2

16. OTHER INFORMATION

NFPA
Health Hazards 2 Flammability 0 Instability 0 Special Hazards -
Soda Ash

NFPA/HMIS Ratings Legend
Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Product Certifications

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium carbonate, anhydrous is 150 mg/L under NSF/ANSI Standard 60.

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American Water Works Association

Revision date: 2018-08-28
Revision note: Updated for Prop 65

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End of Safety Data Sheet