



# THREE ELEPHANT<sup>®</sup> Dense Soda Ash

## Sodium Carbonate

### Safety Data Sheet

## 1. Product and Company Identification

**Product Name:** THREE ELEPHANT<sup>®</sup> Dense Soda Ash  
**Other Product Name(s):** Soda Ash, Sodium Carbonate; Washing Soda  
**Product Use:** Ceramics, chemical reagents, detergents, soaps, glass containers, auto glass, flat glass, electroplating, metal cleaning, paper coating, water softening, enameling, and other general chemical uses.  
**Manufacturer:** SEARLES VALLEY MINERALS INC.  
13200 MAIN STREET; P.O. BOX 367  
TRONA, CALIFORNIA 93592-0367  
Information (760) 372-2291  
**Emergency Telephone Numbers:** 1-800-424-9300 (USA/Canada CHEMTREC)  
+1 (703) 527-3887 (International & Maritime CHEMTREC)

## 2. Hazards Identification

**Emergency Overview:** A white crystalline granular solid that can irritate skin, eyes and respiratory tract. Not flammable.

**OSHA Regulatory Status:** Hazardous  
**WHMIS Regulatory Status:** Hazardous  
**OSHA Classification:** Eye corrosion/irritation 2A  
**OSHA Signal Word:** WARNING  
**OSHA Hazard Statements:** Causes serious eye irritation.

### OSHA Precautionary Statements:

Wear protective gloves and safety eyewear. Wash thoroughly after handling.  
If on skin, wash with plenty of water. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If skin irritation occurs or eye irritation persists, get medical attention.  
Store in a well ventilated place. Keep container tightly closed.  
Dispose of container in accordance with Federal and local regulations.

### OSHA Label Symbols:



### Other Hazards Not Specified by OSHA:

None

\*\* Note: Label designed to meet OSHA & FHSA label requirements and may contain additional phrases.

### Potential Health Effects

**Skin:** Can cause mild skin irritation.  
**Eyes:** Causes eye irritation.  
**Ingestion:** Low toxicity. May cause discomfort. In rare cases may cause irritation or burns to digestive tract.  
**Inhalation:** May cause irritation if inhaled.  
**Chronic Effects:** None.

Ingredients found on established carcinogen lists:

Ingredient	NTP Status	IARC Statue	OSHA List
No ingredients listed in this section.	---	---	---

### 3. Composition / Information on Ingredients

Chemical Name	CAS #	EINECS #	Wt. %
Sodium carbonate*	497-19-8	207-838-8	99 – 100

\*May contain trace amounts of naturally-occurring substances including arsenic and other metals. See Section 15 for California Proposition 65 Warning.

### 4. First Aid Measures

<b>Skin:</b>	Wash with plenty of water. Wash contaminated clothing before reuse. Seek medical attention if skin irritation occurs.
<b>Eyes:</b>	Rinse eyes cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
<b>Ingestion:</b>	If you feel unwell, contact a doctor or poison control center.
<b>Inhalation:</b>	Remove to fresh air.
<b>Advice to Physician:</b>	Treat symptomatically.

### 5. Fire Fighting Measures

<b>Extinguishing Media:</b>	Any media suitable for surrounding fire.
<b>Fire/Explosion Hazards:</b>	None indicated.
<b>Fire Fighting Procedures:</b>	Wear normal firefighting gear suitable for surrounding fire. Self-contained respiratory protection may be required.
<b>Flammable Limits:</b>	None.
<b>Flash Point:</b>	Not flammable.
<b>Autoignition Temperature:</b>	None.
<b>Hazardous Combustion Products:</b>	Produces carbon dioxide if heated above 1832 °F (1000 °C).

### 6. Accidental Release Measures

<b>Personal Precautions:</b>	Wear proper personal protective equipment indicated in Section 8.
<b>Containment:</b>	Not normally required as this is a solid material not normally mobile.
<b>Clean Up:</b>	Sweep up and place into container for reuse and/or disposal.
<b>Notification Requirements:</b>	None normally required.

### 7. Handling and Storage

<b>Handling:</b>	Wear proper personal protective equipment indicated in Section 8. Wash hands before eating or drinking.
<b>Storage:</b>	Should be stored in a dry location. Keep packages tightly closed to minimize dust formation. Keep out of the reach of children.

### 8. Exposure Controls / Personal Protection

**Engineering Controls:** Use local exhaust to keep airborne level below safe exposure guidelines listed below.

#### Personal Protective Equipment

<b>Eyes and Face:</b>	Wear safety glasses or chemical dust goggles to avoid accidental eye contact.
<b>Respiratory:</b>	Not required for properly ventilated areas. Otherwise use a NIOSH approved dust respirator.
<b>Hands, Arms, and Body:</b>	Not normally required. Use work gloves when handling product transfers or if skin is already irritated. Use rubber or neoprene gloves for handling product solutions.
<b>Other:</b>	Safety shower and an eyewash should be available for emergency exposures.

Exposure Guidelines					
Ingredient	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	California PEL
Sodium carbonate Handle as particulates not otherwise regulated	3 mg/m <sup>3</sup> respirable dust 10 mg/m <sup>3</sup> inhalable dust	None	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust	None	10 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust

## 9. Physical and Chemical Properties

<b>Appearance &amp; Physical State:</b>	White, crystalline, granular solid
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>pH (1% solution):</b>	11.4 (1% solution at 68 °F)
<b>Specific Gravity:</b>	2.533
<b>Bulk Density:</b>	55 – 65 lbs/ft <sup>3</sup>
<b>Initial Boiling Point &amp; Range:</b>	Not applicable
<b>Melting Point /Freezing Point:</b>	1563 °F (851 °C)
<b>Evaporation Rate:</b>	Not applicable
<b>Percent Volatile:</b>	None
<b>Solubility in Water:</b>	16.3% at 73 °F (22.8 °C)
<b>Vapor Density:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Upper/ Lower Flammable Limits:</b>	None
<b>Flash Point:</b>	None
<b>Auto ignition Temperature:</b>	Not flammable
<b>Flammability (solid, gas):</b>	Not flammable
<b>Octanol/water partition coefficient:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity:</b>	Solid – Not applicable

## 10. Stability and Reactivity

<b>Stability:</b>	Normally stable.
<b>Conditions to Avoid:</b>	Keep Soda Ash away from aluminum powder, sulfuric acid, fluorine, phosphorous pentoxide, ammoniacal silver nitrate, and molten lithium.
<b>Materials to avoid:</b>	May react with strong acids. May form caustic soda in the presence of hydrated lime and moisture.
<b>Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Soda Ash decomposes at temperatures above 1000 °C, releasing carbon dioxide gas (CO <sub>2</sub> ). Carbon dioxide is an asphyxiant and may affect respiration rate or interfere with breathing. The sodium oxide residue sublimates at 1275 °C, forming vapors and mists of caustic soda on contact with moisture or water.

## 11. Toxicological Information

<b>Eye:</b>	Causes serious eye irritation.
<b>Skin:</b>	LD <sub>50</sub> (dermal, rabbit) > 2000 mg/kg. Can cause mild irritation.
<b>Oral:</b>	LD <sub>50</sub> (oral, rat) – 2800 mg/kg
<b>Inhalation:</b>	The LC <sub>50</sub> for inhalation are 800, 1200 and 2300 mg/m <sup>3</sup> for guinea pig, mice and rat respectively.
<b>Chronic:</b>	Not considered carcinogenic or a reproductive hazard.

## 12. Ecological Information

**Acute ecotoxicity:** Fishes, *Lepomis macrochirus*, LC<sub>50</sub>, 96 h, 300 mg/l  
Crustaceans, *Ceriodaphnia dubia*, EC<sub>50</sub>, 48 h, 200 - 227 mg/l

**Chronic ecotoxicity:** Not determined.

**Other Information:** Not considered to bioaccumulate or to be persistent in the environment.

## 13. Disposal Considerations

**RCRA Status:** Not a hazardous waste if discarded.

**Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult all federal, state, and local hazardous waste regulations to ensure complete and accurate classification and disposal.

## 14. Transportation Considerations

**DOT Proper Shipping Name:** Not regulated for transport

**DOT Primary Hazard Class:** Not applicable

**DOT UN / NA Number:** Not applicable

**DOT Packing Group:** Not applicable

**TDG (Canada):** Not regulated

**IMDG (International water):** Not regulated

**ICAO (Air transport):** Not regulated

## 15. Regulatory Information

### UNITED STATES

#### Toxic Substances Control Act (TSCA)

**TSCA Inventory Status:** Listed on TSCA Chemical Inventory.

**Other TSCA Issues:** None

**NSF/ANSI 60:** Maximum Use Level (MUL) for potable water is 100 mg/l.



### SARA Title III/CERCLA

Ingredients with "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs).

Ingredient	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
No ingredients listed in this section.	---	---

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

<b>SARA 311 Hazard Class:</b>	Immediate
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### SARA 313 Toxic Chemicals

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percent are found in Section 2.

Ingredient	Comment
No ingredients listed in this section.	---

**State Right-To-Know  
California Proposition 65**

**⚠ WARNING:** This product can expose you to chemicals including arsenic, which is 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](http://www.P65Warnings.ca.gov).

**Additional Regulatory  
Information:**

Not listed in Clean Water Act or in Safe Drinking Water Act.

**CANADA**

**WHMIS Classification:**

D2B

**WHMIS Ingredient Disclosure  
List:**

Sodium carbonate is listed.

**DSL Status (Domestic  
substances list):**

Listed on DSL.

Ingredients for this product also found on the chemical inventories of Australia, China, Korea, European Union, Japan and the Philippines.

## 16. Other Information

- Unless otherwise indicated, this materials is not intended for human consumption and is for industrial use only.
- Keep out of the reach of children.

**Issue Date:** January 1, 2024

**Previous Issue Date:** January 1, 2022

**Changes from previous  
version:**

None.

**National Fire Protection Assoc. (NFPA) Classification:**

4 = Severe; 3 = Serious; 2 = Moderate; 1 = Slight; 0 = Minimal

Health	2
Flammability	0
Reactivity	0

**Hazardous Materials Information Systems (HMIS):**

4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant

Health	2
Flammability	0
Physical Hazard	0

*The information appearing herein is based upon data obtained from the generator and/or recognized technical sources. While the information is believed to be accurate, Searles Valley Minerals Inc. (SVM) makes no representations as to its accuracy or sufficiency. Conditions of use are beyond SVM's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the material is suitable for their particular purposes and they assume all risk of their use, or reliance upon, information contained herein. This information relates only to the material designated herein and does not relate to its use in combination with any other material or in any other process.*