



# THREE ELEPHANT® Anhydrous Sodium Sulfate Safety Data Sheet

## 1. Product and Company Identification

<b>Product Name</b>	THREE ELEPHANT® Anhydrous Sodium Sulfate
<b>Other Product Name(s)</b>	Salt Cake; Disodium Sulphate; Trona; Glauber Salt, Bisodium Sulfate, Dibasic Sodium Sulfate
<b>Product Use</b>	Product is used in chemical reagents, detergent, explosives, glass containers, auto glass, flat glass, electroplating, pulp paper, dyeing. Not for food additive use unless labeled "food grade".
<b>Manufacturer</b>	SEARLES VALLEY MINERALS INC. 13200 MAIN STREET; P.O. BOX 367 TRONA, CALIFORNIA 93592-0367 Information (760) 372-2291
<b>Emergency Telephone Numbers</b>	1-800-424-9300 (USA/Canada CHEMTREC) +1 (703) 527-3887 (International & Maritime CHEMTREC)

## 2. Hazards Identification

**Emergency Overview:** A fine white granular crystalline solid that may cause irritation to the, eyes and mild irritation to the skin and respiratory tract. Not flammable.

<b>OSHA Regulatory Status</b>	Not hazardous
<b>WHMIS Regulatory Status</b>	Not a controlled substance
<b>OSHA Classification</b>	None
<b>OSHA Signal Word</b>	None required but ATTENTION is used
<b>OSHA Hazard Statements</b>	None required but label shows the following: Causes mild skin and eye irritation.
<b>OSHA Precautionary Statements</b>	None required but label shows the following:  Do not handle until all safety precautions have been read and understood. Wear protective gloves and safety glasses. Wash thoroughly after handling. FIRST AID: 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.
<b>OSHA Label Symbols</b>	None required
<b>Other Hazards Not Specified by OSHA</b>	None

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

### Potential Health Effects:

<b>Skin</b>	Can cause mild skin irritation, especially if pre-existing irritation exists.
<b>Eyes</b>	Causes mild eye irritation.
<b>Ingestions</b>	Low toxicity. May cause discomfort.
<b>Inhalation</b>	May cause mild irritation if inhaled
<b>Chronic Effects</b>	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. %
Anhydrous Sodium Sulfate	7757-82-6	231-820-9	99

### 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>Ingestions</b>	If you feel unwell, contact a doctor or poison control center.
<b>Inhalation</b>	Remove to fresh air. Seek medical advice in case of irritation.
<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 production may be required.
<b>Flammable Limits:</b>	None
<b>Flash Point</b>	Not flammable
<b>Auto ignition Temperature:</b>	None
<b>Hazardous Combustion Products:</b>	May produce hazardous sulfate oxides if involved in a surrounding fire.

### 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

<b>Engineering Controls:</b>	Use local exhaust to keep airborne level below safe exposure guidelines listed below.
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### 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 glove 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 TLW	ACGIH STEL	OSHA PEL	OSHA STEL	California PEL
Sodium Sulfate (as nuisance dust)	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable 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 solid
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>pH (1% solution)</b>	Estimated at 9.7
<b>Specific Gravity:</b>	2.67
<b>Bulk Density</b>	Not available
<b>Initial Boiling Point &amp; Range:</b>	2012°F (1100 °C)
<b>Melting Point /Freezing Point:</b>	1630 °F (868 °C).
<b>Evaporation Rate:</b>	Not applicable
<b>Percent Volatile:</b>	None
<b>Solubility in Water</b>	27 % at 68 °F (20 °C);
<b>Vapor Density:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<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>	See section 10.
<b>Viscosity</b>	Solid – Not applicable

## 10. Stability and Reactivity

<b>Stability:</b>	Normally stable.
<b>Conditions to Avoid:</b>	High temperatures.
<b>Materials to avoid</b>	When heated to 1472°F (800°C), Anhydrous Sodium Sulfate and aluminum may explode.
<b>Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	Oxides of sodium and sulfur

## 11. Toxicological Information

Properties based upon Boric Acid data where anhydrous acid data is not available.

<b>Eye:</b>	May be mildly irritating
<b>Skin:</b>	May be mildly irritating
<b>Oral:</b>	LD <sub>50</sub> (oral, mouse) ~ 6 gm/kg
<b>Inhalation:</b>	May be mildly irritating
<b>Chronic:</b>	None

## 12. Ecological Information

<b>Acute ecotoxicity:</b>	LC50 Aspergillus 80 ppm/40 hr at 32 deg C LC50 Nitzschia 1900 ppm/120 hr static bioassay TLm Bluegill 12,750 ppm/96 hr [NIH/EPA; OHM/TADS (1986)] **QC REVIEWED** LC50 Mosquito fish 17,500 mg/l/48 hrs in turbid water LC50 Fathead minnow 13,500 to 14,000 mg/l/24 to 96 hr in soft water LC50 Daphnia magna 4547 mg/l/96 hr LC50 Caddis fly (Stenonema ares) 320 mg/l/960 hr in soft water
<b>Chronic ecotoxicity:</b>	Not determined
<b>Other Information</b>	Not considered to bioaccumulate or to be persistent in the environment.

## 13. Disposal Considerations

<b>RCRA Status</b>	Not a hazardous waste if discarded
<b>Disposal Method:</b>	Conform to Federal, State and Local regulations. Small amounts may be disposed of in municipal landfills. Larger quantities (tonnage amounts) need to be sent to approved facilities.

## 14. Transportation Considerations

<b>DOT Proper Shipping Name:</b>	Not regulated for transport
<b>DOT Primary Hazard Class</b>	Not applicable
<b>DOT UN / NA Number:</b>	Not applicable
<b>DOT Packing Group</b>	Not applicable
<b>TDG (Canada)</b>	Not regulated
<b>IMDG (International water)</b>	Not regulated
<b>ICAO (Air transport)</b>	Not regulated

## 15. Regulatory Information

### UNITED STATES:

#### Toxic Substances Control Act (TSCA)

<b>TSCA Inventory Status:</b>	Listed on TSCA Chemical Inventory
<b>Other TSCA Issues:</b>	None

#### SARA Title III/CERCLA

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

<b>Ingredient</b>	<b>SARA/CERCLA RQ (lb)</b>	<b>SARA EHS TPQ (lb)</b>
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>	None
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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 percents are found in Section 2.

Ingredient	Comment
No ingredients listed in this section	---

**State Right-To-Know**

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

Ingredient	Weight %	Comment
No ingredients listed in this section	---	Not listed on California Proposition 65.

<b>Additional Regulatory Information:</b>	Not listed in Clean Water Act or in Safe Drinking Water Act,
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**CANADA:**

<b>WHMIS Classification:</b>	Not a controlled product. Classified in conformance with the Controlled Products Regulations and contains all data required by that regulation.
<b>WHMIS Ingredient Disclosure List</b>	Not listed
<b>DSL Status (Domestic substances list)</b>	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**

- This materials is not intended for use in pesticide manufacture.
- Keep out of the reach of children.

<b>Issue Date:</b>	January 20, 2015
<b>Previous Issue Date:</b>	June 13, 2014
<b>Changes from previous version:</b>	Revision of format to meet HCS 2012.

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

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

Health	1
Flammability	0
Reactivity	0

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

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

Health	1
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.*