



THREE ELEPHANT[®] BIOCARB[®]

Sodium Bicarbonate

Safety Data Sheet

1. Product and Company Identification

Product Name	THREE ELEPHANT [®] BIOCARB [®]
Other Product Name(s)	Sodium Bicarbonate; Baking Soda
Product Use	Animal feed additive. Unless labeled "food grade" not for use in human foods.
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 is mildly irritating to the skin, eyes and respiratory tract. Not flammable.

OSHA Regulatory Status	Irritant (for product containing more than 1% sodium carbonate).
WHMIS Regulatory Status	Not hazardous
OSHA Classification	None
OSHA Signal Word	None
OSHA Hazard Statements	None
OSHA Precautionary Statements	None mandatory Wear work gloves. Wash thoroughly after handling.
OSHA Label Symbols	None
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	May cause mild skin irritation.
Eyes	Causes mild eye irritation.
Ingestions	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 bicarbonate*	144-55-8	205-633-8	95 – 99.6**
Sodium carbonate*	497-19-8	207-838-8	0.4 – 5**

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

** Range due to process variability.

4. First Aid Measures

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

5. Fire Fighting Measures

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

6. Accidental Release Measures

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

7. Handling and Storage

Handling:	Wear proper personal protective equipment indicated in Section 8. Wash hands before eating or drinking.
Storage:	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.
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Personal Protective Equipment:

Eyes and Face:	Wear safety glasses or chemical dust goggles to avoid accidental eye contact.
Respiratory:	Not required for properly ventilated areas. Otherwise use a NIOSH approved dust respirator.
Hands, Arms, and Body:	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.
Other	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 bicarbonate Handle as particulates not otherwise regulated	3 mg/m ³ respirable dust 10 mg/m ³ inhalable dust	None	15 mg/m ³ total dust 5 mg/m ³ respirable dust	None	10 mg/m ³ total dust 5 mg/m ³ respirable dust
Sodium carbonate Handle as particulates not otherwise regulated	3 mg/m ³ respirable dust 10 mg/m ³ inhalable dust	None	15 mg/m ³ total dust 5 mg/m ³ respirable dust	None	10 mg/m ³ total dust 5 mg/m ³ respirable dust

9. Physical and Chemical Properties

Appearance & Physical State	White, crystalline, granular solid
Odor:	None
Odor Threshold:	None
pH (1% solution)	8.2 (1% solution at 68 °F)
Specific Gravity:	2.16
Bulk Density	44 – 50 lbs/ft ³
Initial Boiling Point & Range:	Not applicable
Melting Point /Freezing Point:	Evolves carbon dioxide at 518 °F (270 °C)
Evaporation Rate:	Not applicable
Percent Volatile:	None
Solubility in Water	18.6 g/100 ml at 68 °F (20% @ 20 °C)
Vapor Density:	Not determined
Vapor Pressure:	Not determined
Upper/ Lower Flammable Limits:	None
Flash Point	None
Auto ignition Temperature:	Not flammable
Flammability (solid, gas)	Not flammable
Octanol/water partition coefficient	Not determined
Decomposition temperature	Not determined
Viscosity	Solid – Not applicable

10. Stability and Reactivity

Stability:	Normally stable.
Conditions to Avoid:	High temperatures. See “decomposition products” below
Materials to avoid	May react with strong acids to produce CO ₂ . Keep Sodium Bicarbonate away from monoammonium phosphate or sodium-potassium alloy.
Polymerization:	Will not occur.
Hazardous Decomposition Products	When heated to >100 °C (2120F), Sodium Bicarbonate decomposes to produce carbon dioxide. Sodium Oxide is produced at temperatures >851 °C (1564 0F).

11. Toxicological Information

Eye:	Can cause mild irritation.
Skin:	Sodium Bicarbonate: Can cause mild irritation. Sodium Carbonate: LD ₅₀ (dermal, rabbit) > 2000 mg/kg. Can cause mild irritation.
Oral:	Sodium Bicarbonate: LD ₅₀ (oral, rat) = 4220 mg/kg Sodium Carbonate: LD ₅₀ (oral, rat) = 2800 mg/kg

Inhalation:	Sodium Carbonate: The LC ₅₀ for inhalation are 800, 1200 and 2300 mg/m ³ for guinea pig, mice and rat respectively.
Chronic:	Not considered carcinogenic or a reproductive hazard. Sodium Carbonate: Oral route (gavage) 10 days rabbit 330 mg/kg. Did not show teratogenic effects in animal experiments.

12. Ecological Information

Acute ecotoxicity:	Sodium Bicarbonate: Daphnids – EC ₅₀ = 4,100 mg/ Bluegill – LC ₅₀ = 7,100 mg/l; Rainbow – LC ₅₀ = 7,700 mg/l Sodium Carbonate: Daphnids: EC ₅₀ = 4100 mg/l. Bluegill: LC ₅₀ = 7100 mg/l. Rainbow Trout: LC ₅₀ = 7700 mg/l.
Chronic ecotoxicity:	Sodium Carbonate: Daphnia magna NOEC 21 Days >576 mg/l
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.

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.

SARA 311 Hazard Class:	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**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.

Additional Regulatory Information:	Not listed in Clean Water Act or in Safe Drinking Water Act.
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CANADA:

WHMIS Classification:	D2B (for product containing more than 1% sodium carbonate).
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, 2020
Previous Issue Date:	August 21, 2018
Changes from previous version:	None

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

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