



SODIUM ASCORBATE SAFETY DATA SHEET

1. Product Identification

Synonyms: Sodium Salt of Vitamin C
Recommended Use: Additive for treatment of water to remove dissolved oxygen.
CAS#: 134-03-2
Supplier: Terra Systems, Inc.
 130 Hickman Road, Suite 1
 Claymont, Delaware 19703
 Telephone (302) 798-9553
 Fax (302) 798-9554
www.terrasystems.net

2. Hazards Identification

Emergency Overview

Caution: May cause eye or skin irritation.
Health Rating: 2 - Moderate
Flammability Rating: 1 - Slight
Reactivity Rating: 0 - None
Contact Rating: 1 - Slight
Protective Equipment: Goggles; Proper Gloves
Storage Color Code: Green (General Storage)
Potential Health Effects
Inhalation: Not expected to be a health hazard.
Ingestion: Hazard via ingestion.
Skin Contact: May cause irritation or sensitization in sensitive individuals.
Eye Contact: May cause mild irritation.
Chronic Exposure: No information found.
Aggravation of Pre-existing Conditions: No information found.

3. Composition/Information on Ingredients

Ingredient	Synonyms	CAS #	Percent	Hazardous
Sodium Ascorbate	Sodium Salt of Vitamin C	134-03-2	100	No

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4. First Aid Measures

Inhalation:	Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion:	If large amounts were swallowed, give water to drink and get medical advice.
Skin Contact:	Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:	Flash point and auto ignition: not available. May be combustible at high temperature. Isolate from heat and open flame.
Explosion:	Slightly explosive in presence of open flames and sparks. Non-flammable in presence of shocks.
Fire Extinguishing Media:	Dry chemical powder for small fires. Water spray, fog, or foam may be effective for large fires. Do not use water jet. .
Special Information:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Fine dust dispersed in air at sufficient concentrations with an ignition source is a potential dust explosion hazard.

6. Accidental Release Measures

Clean-up personnel may require protective clothing. Scoop up and containerize for disposal. Flush trace residues to sewer with soap and water. Containerized waste may be sent to an approved waste disposal facility.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Containers of this material may pose a fire risk due to dusts. Keep container tightly closed and upright when not in use to prevent leakage. Sensitive to light. Store in light-resistant containers.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:	None established.
Ventilation System:	Use ventilation to keep exposure below exposure limits.
Personal Respirators (NIOSH)	

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Approved): Use dust respirator usage.
Skin Protection: Wear protective gloves and clean body-covering clothing.
Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Provide readily accessible eye wash stations and safety showers.

9. Physical and Chemical Properties

Appearance: White to yellowish granular or crystalline solid
Molecular Weight: 198.11 g/mole
Odor: Odorless.
Solubility: 620 g/L solubility in water at 25 C.
Specific Gravity (water=1): 1.66 (water = 1).
pH: Not available
% Volatiles by volume @ 21C (70F): Negligible.
Boiling Point: No information found.
Melting Point: No information found.
Flash Point (F): No information found.
Autoignition Temperature: No information found.
Decomposition Temperature: Decomposition temperature 200 C (392 F)
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): Not applicable.
Evaporation Rate (BuAc=1): Not applicable.
Partition Coefficient (octanol/water): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.
Reactivity: Not reactive under ordinary conditions.
Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization: Will not occur.
Incompatibilities: Strong oxidizers, reducing agents, acids, alkalis.
Conditions to Avoid: Incompatibles. Isolate from heat and open flame.

11. Toxicological Information

Routes of Entry Inhalation and ingestion.
Toxicity to Animals: Acute oral toxicity (LD50): 16300 mg/kg Rat.
Chronic Effects on Humans: Carcinogenic effects – classified 4 (no evidence) by NTP and none by OSHA. Mutagenic effects – mutagenic to mammalian somatic cells. May cause damage to kidneys, gastrointestinal tract, and upper respiratory tract. May affect genetic material (mutagenic) based on animal test data. No human data found

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(Registry of Toxic Effects of Chemicals). May cause cancer based on animal test data. No human data found (Registry of Toxic Effects of Chemicals).

Other Toxic Effects: Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant) or inhalation.

12. Ecological Information

Environmental Fate: No information found.
Environmental Toxicity: No information found.
Degradability: This product is inherently biodegradable under both aerobic and anaerobic conditions.
Soil Mobility: No information found.
Bioaccumulation Potential: Does not bioaccumulate.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

OSHA STATUS: This product is not hazardous under the criteria of the Federal OSHA hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Section 10.

TSCA STATUS: No component of this product is listed on the TSCA inventory.

CERCLA (Comprehensive Response Compensation, and Liability Act): Not reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

Section 312 Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Non-hazardous Under Section 311/312

Section 313 Toxic Chemicals: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

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CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California safe Drinking Water and Toxic Enforcement Act of 1986. The product contains no chemicals known to the State of California to cause cancer.

16. Other Information

NFPA Ratings:	Health: 2 Flammability: 1 Reactivity: 0
Date Prepared:	February 3, 2015
Revision Information:	SDS Section(s) changed since last revision of document include: None.
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