



Silver Fern Chemical, Inc.

Safety Data Sheet

Nitrilotriacetic Acid (NTA)

Version 1.1
Effective Date: 05/22/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Nitrilotriacetic Acid (NTA)

Description: Trisodium Salt of Nitrilotriacetic Acid
Product Code: 1130
Suggested Use: Chelating Agent
Restrictions on Use: N/A

Supplier: Silver Fern Chemical, Inc.
121 W De La Guerra St STE B
Santa Barbara, CA 93101
Telephone: Phone: 1-866-282-3384
Email: Info@silverfernchemical.com

Emergency Phone: 24 Hour Emergency Contact
Infotrac 1-800-535-5053 (USA & Canada)
Outside USA & Canada 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification

GHS Classification: Acute Oral Toxicity (Category 4)
Skin Irritation (Category 2)
Serious Eye Irritation (Category 2A)
Carcinogenicity (Category 2)
Acute Aquatic Toxicity (Category 3)

GHS Label Elements

Pictogram:



Signal Word:

Warning

Hazard Statements:

H302: Harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H351: Suspected of causing cancer
H402: Harmful to aquatic life

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.
P264: Wash skin thoroughly after handling
P270: Do not eat, drink, or smoke when using this product.
P273: Avoid release into the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P313: IF SWALLOWED: Get medical advice/attention if you feel unwell.
P302+P362+P352: IF ON SKIN: Take off contaminated clothing and wash before reuse.



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Safety Data Sheet

Nitrilotriacetic Acid (NTA)

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Wash skin with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P332+P313: If skin irritation occurs: Get medical attention/advice.
P337+P313: If eye irritation persists: Get medical attention/advice.
P501: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

HMIS Classification: Health Hazard: 2
Flammability: 0
Physical Hazards: 0

NFPA Rating: Health Hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation: Inhalation of dusts may cause serious respiratory irritation.
Skin: Contact may cause skin irritation.
Eyes: Contact can cause serious eye irritation. Avoid exposure with airborne dust.
Ingestion: May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Trisodium Nitrilotriacetate	5064-31-3/18662-53-8	>90%
Synonyms:	NTA-Na ³	

4. FIRST AID MEASURES

If Inhaled: If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced.
Skin Contact: Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.
Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Get medical attention/advice.
If Ingested: Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability Overview: Considered a very low flammability risk.
Flash Point: N/A



Silver Fern Chemical, Inc.

Safety Data Sheet

Nitrilotriacetic Acid (NTA)

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Extinguishing Media: Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire.

Special Protective Equipment for Firefighters: Wear a self-contained breathing apparatus (SCBA) for fighting large fires.

Hazardous Combustion Products: Mostly Carbon Oxides. Oxides of Nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Use only non-sparking tools. Avoid inhalation of dust from the spilled material. No action should be taken involving any personal risk or without suitable training.

Environmental Precautions: If safe to do so, avoid the dispersal of spilled material and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution. This material is possibly hazardous to the aquatic environment. Collect spillage.

Containment and Clean Up: If safe to do so, stop the leak or spill. Eliminate all ignition sources. Avoid dispersal of dust in the air. Collect spilled material with a clean shovel and place material in a container for disposal according to local regulations. If sweeping is necessary, use a dust suppressant agent which does not react with the products. If assistance is needed call emergency services.

7. HANDLING AND STORAGE

Safe Handling: Use appropriate personal protective equipment. Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas. Avoid the creation of airborne dust.

Safe Storage: Keep containers tightly closed in a cool, dry, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible and combustible materials. Guard against dust accumulation of this material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
N/A	N/A	N/A	N/A

Personal Protective Equipment

Eye Protection: Tightly fitting safety goggles or safety glasses should be sufficient. Have eye-wash



Silver Fern Chemical, Inc.

Safety Data Sheet

Nitrilotriacetic Acid (NTA)

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Hand Protection:	stations available where eye contact can occur. Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.
Skin Protection:	Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in the areas where skin contact can occur.
Respiratory Protection:	Always ensure adequate ventilation. A dust mask is recommended for applications where dust or powder will cause inhalation hazards. Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. Further respiratory protection may be needed in non-routine or emergency conditions.
General Controls:	Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	White
Odor:	N/A
Odor Threshold:	N/A
pH (1%):	10-11
Melting/Freezing Point:	>250°C (482°F)
Boiling Point:	N/A
Flash Point:	N/A
Evaporation Rate:	N/A
Flammability (solid, gas):	N/A
Flammability/Explosion Limits:	N/A
Vapor Pressure @ 20°C:	N/A
Vapor Density:	N/A
Specific Gravity:	N/A
Density:	N/A
Solubility in Water:	457 g/l
Partition Coefficient:	N/A
Autoignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Conditions and Materials to Avoid:	Avoid strong oxidizing agents.
Hazardous Decomposition Products:	Under fire conditions: Mostly Carbon Oxides. Oxides of Nitrogen.



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Safety Data Sheet

Nitrilotriacetic Acid (NTA)

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Trisodium Nitrilotriacetate	5064-31-3/ 18662-53-8	Oral LD50 (Rat)	1300 mg/kg
		Dermal LD50	No specific data available
		Inhalation LC50	No specific data available

Potential Health Effects

Inhalation: Inhalation of dusts may cause serious respiratory irritation.
Skin: Contact may cause skin irritation.
Eyes: Contact can cause serious eye irritation. Avoid exposure with airborne dusts.
Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure: Irritation. Redness. Watering Eyes.

Chronic Effects of Long-term Exposure: No known significant effects or critical hazards.

Carcinogenicity: IARC: There is *sufficient evidence* for the carcinogenicity of nitrilotriacetic acid and its sodium salts in experimental animals. No data were available from studies in humans on the carcinogenicity of nitrilotriacetic acid and its salts. In formulating the overall evaluation, the Working Group took note of the fact that nitrilotriacetic acid is liberated to some extent from nitrilotriacetate salts in solution. Nitrilotriacetic acid and its salts are *possibly carcinogenic to humans (Group 2B)*.

Mutagenicity: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Trisodium Nitrilotriacetate	5064-31-3/ 18662-53-8	Lepomis macrochirus	96 hr LC50 = 298 mg/l
		Daphnia magna	48 hr EC50 = 560 mg/l

Persistence and Degradability: Expected to complex with trace metals in soil and water.

Bioaccumulation Potential: Not expected to bioaccumulate in aquatic organisms.

Mobility in Soil: No specific data available.

Other Adverse Effects: This product is potentially harmful to aquatic organisms and the environment if released in large quantities. This product should not be dumped into waterways.

13. DISPOSAL CONSIDERATIONS



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Disposal:	The generation of waste should be avoided or minimized wherever possible. Material should be disposed of in accordance with all local, state, and federal regulations. Regulations vary by region. Avoid release into the soil, sewers, drains, and other waterways.
Contaminated Packaging:	Waste packaging should be recycled or reused whenever possible. If recycling is not feasible, contaminated packaging should be disposed of in accordance with all local, state, and federal regulations. Regulations vary by region.

14. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name:	N/A
UN Number:	N/A
Hazard Class:	N/A
Packing Group:	N/A
Reportable Quantity (RQ):	N/A
Marine Pollutant:	No
Note:	Not regulated for transport.

15. REGULATORY INFORMATION

US Federal

SARA 302 Components:	None Listed
SARA 311/312 Hazards:	Acute Health Hazard, Chronic Health Hazard
SARA 313 Components:	None Listed

TSCA Inventory:	All components listed or exempted.
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European Union

EC Inventory:	200-449-4
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State Regulations

CA Prop 65:	 This product contains Nitrilotriacetic Acid, Trisodium Salt (CAS 18662-53-8) which is known to The State of California to cause cancer.
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16. OTHER INFORMATION

SDS Version:	1.1
Revision Date:	05/22/2024



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