

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **Nitrilotriacetic Acid - NTA**

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

Supplier: Silver Fern Chemical, Inc  
2226 Queen Anne Ave. North  
Seattle WA 98109 USA  
Telephone: Customer Service: 1-866-282-3384

Emergency Phone: INFOTRAC 1-800-535-5053 (US & Canada)  
International 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.  
Wash skin with plenty of soap and water.

**SAFETY DATA SHEET**Version 1.0  
Effective Date: 04/27/17

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**

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

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

**SAFETY DATA SHEET**Version 1.0  
Effective Date: 04/27/17

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 stations available where eye contact can occur.

Hand Protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.

---

**SAFETY DATA SHEET**Version 1.0  
Effective Date: 04/27/17

|                         |                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

---

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity**

---

## SAFETY DATA SHEET

Version 1.0  
Effective Date: 04/27/17

| Component                   | CAS Number               | Test            | Toxicity                   |
|-----------------------------|--------------------------|-----------------|----------------------------|
| Trisodium Nitrilotriacetate | 5064-31-3/<br>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/<br>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**

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.

**European Union**

EC Inventory: 200-449-4

**State Regulations**

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

---

**16. OTHER INFORMATION**

SDS Version: 1.0  
Revision Date: 04/27/2017  
Supersedes: New to GHS

**DISCLAIMER OF RESPONSIBILITY**

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product.

---

**SAFETY DATA SHEET**

Version 1.0  
Effective Date: 04/27/17

---

If the product is used as a component in another product, this SDS information may not be applicable.