



1. PRODUCT IDENTIFICATION

Product Name: MINERAL & SCALE CONTROL
Synonym(s): Super Metal-Out; Winter Stain & Scale Control
Recommended Uses: Sequestering and Chelating Agent for Pools and Spas
SDS Reference: 125
Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. **Distributed By:** ALLCHEM PERFORMANCE PRODUCTS, INC.
 6010 NW FIRST PLACE 6010 NW FIRST PLACE
 GAINESVILLE, FL 32607 GAINESVILLE FL 32607
 Tel: 352-378-9696
24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

2. HAZARD(S) IDENTIFICATION

Classification: CARCINOGEN
 CORROSIVE
 EYE DAMAGE
 SKIN IRRITANT

Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:
 Carcinogen - Suspected of causing cancer - H351
 Specific target organ - repeat exposure - Inhalation - Category 2 - H373
 Causes serious eye damage - Category 1 - H318
 Causes skin irritation - Category 2 - H315
 PHYSICAL HAZARDS:
 Corrosive to metals -Category 1 - H290

Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container.
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection. Wear protective gloves. Use personal protective equipment as required.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Wash with plenty of soap and water. If skin irritation occurs, obtain medical advice/attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

Ingestion: IF exposed or concerned: Get medical advice/ attention.

3. COMPOSITION

Chemical Name:	PERCENT %	CAS #
Tetrasodium Ethylenediamine Tetraacetate	18.0 - ≤ 19.5	64-02-8
Sodium Hydroxyacetate	1.5	2836-32-0
Sodium Hydroxide	<0.8	1310-73-2
Nitrilotriacetate, Trisodium Salt (NTA)	≤0.5	5064-31-3
Water	78.0	7732-18-5

4. FIRST AID

If In Eyes: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

If on Skin or Clothing: Wash skin with plenty of water.

If Inhaled: Move person to fresh air; if effects occur, consult a physician.

If Swallowed: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to

irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

Specific Hazards from Chemical: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated. Residue can burn.

Special Protective Equipment: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Other Information: Keep people away. Isolate fire and deny unnecessary entry.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate area. Keep upwind of spill. Ventilate area of leak or spill. Only trained and properly protected personnel must be involved in clean-up operations. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.

Methods and Materials for cleanup: Small spills: Contain spilled material if possible. Absorb with materials such as: Non-combustible material. Collect in suitable and properly labeled containers. Large spills: Dike area to contain spill. Wash the spill site with water. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Handling: Do not get in eyes. Do not swallow. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Storage: Store in accordance with good manufacturing practices. Do not store in: Opened or unlabeled containers; Zinc; Aluminum; Aluminum alloys; Carbon steel; Copper; Copper alloys; Galvanized containers or Nickel. Store in original unopened container. See Section 10 for more specific information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Sodium Hydroxide:
ACGIH: 2 mg/m³ (C)
OSHA Table: 2 mg/m³ (TWA)
Z-1
CAL PEL: 2 mg/m³ ©

Appropriate Engineering Controls: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual Protection Measures: **Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator. The following should be effective types of air purifying respirators: Particulate filter.

Eye/Face Protection: Use chemical goggles.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hand Protection: Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene. Polyvinyl chloride ("PVC" or "vinyl"). Polyethylene. Natural rubber ("latex"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). **NOTICE:** The selection of a specific glove for a particular

application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to Yellow Liquid	Flammability (solid/gas):	Not Applicable
Odor:	Mild	Upper/lower Flammability or	Not Applicable
Odor Threshold:	No data available	Exposure limits:	
pH:	11.0 - 11.8 (1% solution)	Vapor Pressure:	Same as water
Melting Point/Freezing Point:	Not Applicable	Vapor Density:	Same as water
		Density:	9.013 lbs/gal
		Solubility(ies):	Soluble in water
Initial Boiling Point/Boiling Range:	223° F (106° C)	Partition Coefficient: n-octanol/water:	No data available
		Auto-ignition Temperature:	Not Applicable
Flash Point:	No measureable flashpoint.	Decomposition Temperature:	No data available
Evaporation Rate:	<0.8 estimated	Viscosity:	No data available

10. STABILITY AND REACTIVITY

Stability/Reactivity:	Stable under recommended storage conditions.
Possibilities of Hazardous Reactions:	Hazardous Polymerization: Will Not Occur
Conditions to Avoid:	Some components of this product can decompose at elevated temperatures.
Incompatible Materials:	Avoid contact with metals such as: Aluminum alloys. Copper. Copper alloys. Nickel. Flammable hydrogen may be generated from contact with metals such as: Zinc. Aluminum.
Hazardous Decomposition Materials:	Decomposition products depend upon temperature, air supply and the presence of other materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Based upon 39% product: Oral LD50 (rat): 3030 mg/kg Dermal LD50 (rabbit): >5000 mg/kg Inhalation: Vapors are primarily water; single exposure is not likely to be hazardous. Prolonged excessive exposure to mist may cause serious adverse effects, even death. Mist may cause irritation of upper respiratory tract (nose and throat). As product, the LC50 has not been determined. However, Acute Inhalation of Nitrotriacetate, trisodium salt (NTA) may cause irritation to upper respiratory tract (nose and throat). LD50, Rate, male 4 hour, dust/mist >5.0 mg/l. No deaths occurred at this concentration. Eye damage/eye irritation: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. Skin corrosion/irritation: Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage. May cause more severe response if skin is abraded (scratched or cut). May cause more severe response on covered skin (under clothing, gloves). Mist may cause skin irritation. Not classified as corrosive to the skin according to DOT guidelines. Sensitization Skin: Relevant data not available. Sensitization Respiratory: Relevant data not available. Specific Target Organ Repeated Dose Toxicity: For the minor component(s): In animals, effects have been reported on the following organs: Kidney. Urinary tract. Repeated excessive exposures may alter concentrations of metals in the body. In animals, has been shown to cause deposition of calcium salts in various urinary tract tissues. Aspiration Hazard: Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.
Chronic Toxicity:	No data available.
Reproductive Toxicity:	No relevant data found.

Carcinogenicity: Nitritotriacetate, trisodium salt (NTA) is listed on IARC as a possible carcinogenic to humans: 2B.

Mutagenicity: Most data indicate that EDTA and its salts are not mutagenic. Minimal effects reported are likely due to trace metal deficiencies resulting from chelating by EDTA.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Based upon the 38% material:
 Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L).
 LC50, fathead minnow (*Pimephales promelas*), 96 h: > 100 mg/l
 LC50, *Lepomis macrochirus* (Bluegill sunfish), 96 Hour, 157 - 2,070 mg/l

Avian Toxicity: No data available.

Environmental Hazards: Practically non-toxic to fish.

13. DISPOSAL CONSIDERATIONS

Disposal: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

14. TRANSPORTATION INFORMATION

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: UN3267, Corrosive Liquid, Basic, Organic, n.o.s. (Sodium Hydroxide, Tetrasodium Ethylenediamine Tetraacetate), 8, PG III

15. REGULATORY INFORMATION

TSCA: USA: Reported in the EPA TSCA Inventory.

SARA (311, 312): Acute Health Hazard. Chronic Health Hazard.

SARA 313: None of the ingredients are listed.

Right To Know Hazardous Substance List: California Proposition 65: This product is not listed.
 Pennsylvania Worker and Right-to-Know Act: Formaldehyde (CAS# 50-00-0)

Waste Classification: No data available.

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Reportable Quantity: Not applicable.

16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. 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 THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: Health: 3
 Fire: 0
 Reactivity: 0

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Special Hazard Warning: Not applicable