



MATERIAL SAFETY DATA SHEET

Product Name Azure Stain & Scale Remover
Product id 8675-AZ
Revision date 17/09/2007

Revision: 1

1. Identification of the substance & the company

Chemical name This product is a formulation. The active Ingredients calculated as Tetrasodium Ethylenediaminetetraacetate 39%

Type of product and use Chelating agent

Supplier NAVA Water Products
95 MacCorkle Ave. SW, South Charleston, WV 25303 , USA
Tel: (304) 746-3000

Emergency Telephone Chemtrec (800)424-9300
Medical 1-800-420-9236

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Tetrasodium salt of Ethylenediaminetetraacetic Acid 64-02-8	37	Not determined	Not determined
Disodium Ethylenediaminediacetate 38011-25-5	1	Not determined	Not determined
Trisodium Ethylenediaminetriacetate 19019-43-3	1	Not determined	Not determined
Trisodium Nitrilotriacetate 5064-31-3	1	Not determined	Not determined
Sodium Hydroxide 1310-73-2	1	2 mg/m ³ ceiling	2 mg/m ³ ceiling
Sodium Glycolate 2836-32-0	3	Not determined	Not determined
Water 7732-18-5	56	Not determined	Not determined



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3. Hazards identification

Emergency overview *Light yellow liquid with Amine odor
Causes severe burns to eyes, mouth and throat
Irritant to skin
May cause lungs damage*

Potential Health Effects:

- **Eye Contact** May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. Mist may cause eye irritation
- **Skin contact** Prolonged contact may cause slight skin irritation with local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling and tissue damage. Mist may cause skin irritation.
- **Ingestion** May result in gastrointestinal irritation or ulceration or in burns of the mouth and throat. Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury

NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 0

4. First-aid measures

Eye contact Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.

Skin contact Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use.
Get medical attention if irritation occurs and persists.

Inhalation In case of inhalation, remove person to fresh air.
Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Ingestion If swallowed, wash mouth thoroughly with plenty of water and give water to drink.
Get medical attention immediately.

NOTE: Never give an unconscious person anything to drink.



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Note to physician	Corrosive. No specific antidote. In case of ingestion DO NOT induce vomiting. Treat symptomatically and supportively.
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5. Fire - fighting measures

Note:	The material will not burn until the water has evaporated. Residue can burn
Flash point	Not applicable
Flammable/Explosion limits	Not applicable
Auto-ignition temperature	Not applicable
Suitable extinguishing media	Carbon dioxide, foam, Water spray and dry chemical powder
Fire fighting procedure	In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode
Unusual fire and explosion hazards	None known

6. Accidental release measures

Personal precautions	Evacuate area. Keep upwind. Wear appropriate safety clothing and eye/face protection (see Section 8)
Methods for cleaning up	Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in labelled, sealable container for subsequent safe disposal.
Environmental precautions	Prevent from entering into soil, ditches, sewers waterways and/or groundwater.

7. Handling and storage

Handling	Keep containers tightly closed. Avoid eye contact Avoid breathing mist and any other bodily contact. Use only in area provided with appropriate exhaust ventilation.
Storage	Do not store in: Zinc, Aluminum, Carbon steel, Copper, Copper alloys, Galvanized containers, Nickel. Storage temperature 0-120°F (-17.8-48.9°C)



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8. Exposure controls / personal protection

Ventilation requirements Good general ventilation.

Personal protective equipment:

- **Respiratory protection** Approved respirator
- **Hand protection** Protective gloves
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Body covering clothes and boots

Hygiene measures Safety shower and eye bath should be provided. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

9. Physical and chemical properties

Appearance Light yellow liquid
Freezing point/range -25°C (-13°F)
Boiling point/range 106°C (223 °F)
Vapour pressure Water
Vapor density Same as water
Solubility:
- **Solubility in water** Soluble
Specific gravity 1.31(25°C)
Partition coefficient (n-octanol/water) Log Pow - <3

10. Stability and reactivity

Stability Stable under recommended storage conditions.

Materials to avoid Strong oxidizers, Zinc, Aluminum, Carbon steel, Copper, Copper alloys, Galvanized containers, Nickel. Flammable Hydrogen may be generated from contact with metals such as Aluminum

Decomposition Decomposes when heated or dampened, releasing oxygen and heat

Conditions to avoid High temperatures

Hazardous decomposition products NOx, CO, CO2, Ammonia



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Hazardous polymerization Will not occur

11. Toxicological information

Acute toxicity:

- Rat oral LD50 3030 mg/kg (male)
- Rabbit dermal LD50 > 5000 mg/kg

Mutagenicity

Minimal effects reported are likely due to trace metal deficiencies resulting from chelation by EDTA

Carcinogenicity

Not included in NTP 11th Report on Carcinogens
IARC Group 2B (animal sufficient evidence, human limited evidence)
Listed as a potential carcinogen for hazard communication purposes under OSHA standard 20 CFR 1910.1200

Teratogenicity

Birth defects in laboratory animals were observed at doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation

12. Ecological information

Aquatic toxicity :

- LC50, fish >100 mg/l (Fathead minnow)
1030 mg/l (Bluegill)

Biodegradation

Not biodegradable under aerobic conditions (ThOD<2.5%)

Bioaccumulative potential

BCF<100

13. Disposal considerations

Waste disposal

Observe all federal, state and local environmental regulations when disposing of this material
Do not dump into sewers, on the ground, or into any body of water

14. Transportation information

DOT Not regulated



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15. Regulatory information

USA All the ingredients in this preparation are listed in the EPA TSCA Inventory.

- Pennsylvania right to know list Some of the ingredients are listed

Canada CPR statement: this product has been classified in accordance with the hazard criteria of the Canadian controlled products regulations (CPR) and the MSDS contains all the information required by the CPR

- WHMIS hazard class
D2A very toxic materials
D2B toxic materials
E corrosive material

16. Other information

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, NAVA Water Products makes no representations as to the completeness or accuracy thereof.

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In an event of discrepancy between the contents of this MSDS and the English version of it, the English version shall prevail.

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End of safety data sheet