



MATERIAL SAFETY DATA SHEET

Product Name **Azure Poly-Algaecide 60**
Product id 8854-60-AZ
Revision date 25/04/2007

Revision: 1

1. Identification of the substance & the company

Chemical name Proprietary formulation
Type of product and use Algaecide
Supplier NAVA Water Products
95 MacCorkle Ave. SW, South Charleston, WV 25303, USA
Tel: (304) 746-3000
Emergency Telephone Chemtrec (800)424-9300

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Component A	60	Not determined	Not determined

3. Hazards identification

Emergency overview *Clear, pale yellow liquid*
Irritant to eyes

Potential Health Effects:
- Eye Contact Slightly irritant
- Skin contact Slight irritant. Non sensitizer. Skin inflammation is characterized by itching, scaling, reddening or occasionally blistering.

NFPA Ratings (Scale 0-4) Health = 1, Fire = 1, Reactivity = 0.
HMIS Ratings (Scale 0-4) Health = 1, Fire = 1, 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.



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Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. 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. Get medical attention immediately. ***** NOTE: Never give an unconscious person anything to drink. *****

5. Fire - fighting measures

Flash point	>100°C (212°F) (closed cup)
Flammable/Explosion limits	Not available
Suitable extinguishing media	Water spray, Carbon dioxide, dry chemicals and foam
Fire fighting procedure	In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode
Unusual fire and explosion hazards	When heated to decomposition, may release poisonous fumes.

6. Accidental release measures

Personal precautions	See section "Exposure controls/personal protection".
Methods for cleaning up	Absorb on sand or vermiculite and place in closed container for disposal. Do not flush into surface water or sanitary sewer system.



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7. Handling and storage

Handling Keep containers tightly closed.

Storage Store in a cool, well-ventilated area, away from incompatible materials (see "materials to avoid").

8. Exposure controls / personal protection

Ventilation requirements Provide adequate ventilation.

Personal protective equipment:

- **Respiratory protection** Not required; except in case of aerosol formation.
- **Hand protection** Rubber gloves
- **Eye protection** Safety glasses or goggles
- **Skin and body protection** Body covering clothes and boots

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

9. Physical and chemical properties

Appearance Clear pale yellow liquid with mild odour

Melting point/range <-16°C (3.2°F)

Boiling point/range >100°C (212 °F)

Vapour pressure Not available

Viscosity Kinetic: 125 cS

Solubility:

- **Solubility in water** Soluble

Density 1.15 gr/cm³

pH 6-7 (100 ppm in water)
7 (Neat)

Partition coefficient (n-octanol/water) Not available

10. Stability and reactivity

Stability Stable under normal conditions



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Materials to avoid Anionic polymers
Conditions to avoid None known
Hazardous decomposition products CO
Hazardous polymerization Will not occur

11. Toxicological information

Acute toxicity:

- Rat oral LD50 1951mg/kg (male)
2587mg/kg (female)
- Rabbit dermal LD50 >2000 mg/kg
- Rat inhalation LC50 2.9ppm (4h)

Target organ effects Eyes, skin and respiratory system

Carcinogenicity Not classified by IARC
Not classified by NTP.
Not classified as a carcinogen by USA OSHA

12. Ecological information

Aquatic toxicity :

- 96 Hour-LC50, Fish 0.047 mg/l (Rainbow trout)
0.26 mg/l (Fathead minnow)
0.21mg/l (Blugill sunfish)
>600mg/l (Sheepshead minnow)

Marine Invertebrate 13 mg/l (96h Mysid shrimp)

13. Disposal considerations

Waste disposal Observe all federal, state and local environmental regulations when disposing of this material.



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14. Transportation information

UN No. 3082
IMO Proper shipping name: Environmentally hazardous substance, liquid, n.o.s
(Poly[oxyethylene(dimethyliminio)ethylene dichloride])
Class: 9 - Miscellaneous Dangerous Substances and articles
Marking: MARINE POLLUTANT
Packing Group: III
DOT Not regulated
ICAO/IATA Not regulated

15. Regulatory information

USA This product is a registered pesticide under FIFRA.
Sara 313 Not listed
Sara (311, 312) hazard class This product is categorized as an immediate health hazard.

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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End of safety data sheet