

Product Name: NAVA Algaecide 10

Product id: 2006-10AZ Revision date: 2016-10AZ

1. Identification of the substance & the company

Trade name Algaecide 10

Chemical family Quaternary Ammonium Compound

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

Medical 1-800-420-9236

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1	10	Not determined	Not determined
Ethanol 64-17-5	2	1000 ppm	1000 ppm; 1900 mg/m³
Water 7732-18-5	88	Not determined	Not determined

3. Hazards identification

Emergency overview Clear, colorless to straw colored liquid

Corrosive to the eyes, skin, gastrointestinal tract, and

respiratory system

Potential Health Effects:

- Eye Contact Causes burns and may result in permanent injury to eyes

including blindness

- Skin contact Causes burns. Brief exposures may cause irritation and

defatting of the skin.

- Inhalation Mists and vapors can irritate the throat and respiratory tract.

High vapor concentrations may cause central nervous system effects. Symptoms may include headaches,

dizziness and drowsiness.

- Ingestion Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea and even death

Chronic effects/Carcinogenicity Ingestion of ethanol by pregnant women can cause

reproductive toxicity to the fetus

NFPA Ratings (Scale 0-4) Health = 3, Fire = 2, Reactivity = 0. HMIS Ratings (Scale 0-4) Health = 3, Fire = 2, Reactivity = 0.



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4. First-aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15-

20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advise.

Skin contact Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment

advise.

Inhalation Move person to fresh air. If person is not breathing, call 911

or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or

doctor for further treatment advise.

Ingestion Call poison control center, or doctor immediately for

treatment advise.

Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an

unconscious person.

Note to physician Probable mucosal damage may contraindicate the use of

gastric lavage.

5. Fire - fighting measures

Flash point 200°F Pensky Martin Closed Cup

Flammable/Explosion limits Not available

Suitable extinguishing media Water spray, Carbon dioxide, dry chemicals and foam

Fire fighting procedure Cool containers with water spray. Fire fighters should wear full

protective clothing and self-contained breathing apparatus

(SCBA).

Unusual fire and explosion

hazards

Vapours can form explosive mixtures with air. Vapour may travel considerable distance to source of ignition and flash

back.

When heated to decomposition, may release poisonous

fumes.

6. Accidental release measures

Personal precautions Isolate spill area and restrict non essential personnel. Wear

protective equipment to avoid skin contact, eye contact and breathing vapors. Stop leak if possible without personal risk.



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Stay upwind. Keep out of low areas where vapors may

accumulate. Avoid heat, flames, sparks and other sources of

ignition.

Methods for cleaning up Ventilate closed spaces before entering. All equipment used

when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or confined areas. Absorb on sand, earth or vermiculite. Keep in suitable.

closed containers for disposal.

Use non sparking tools in cleanup operations.

Large Spills: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming.

Water may not prevent ignition in closed spaces.

7. Handling and storage

Handling Avoid contact with skin and eyes. Keep containers tightly

closed.

Storage Keep away from heat, sparks and open flame.

Keep from freezing. Store in a cool, well-ventilated area away

from incompatible materials (see "materials to avoid"). Prevent electrostatic charge buildup by using common

bonding and grounding techniques.

8. Exposure controls / personal protection

Ventilation requirements Provide adequate ventilation.

Personal protective equipment:

- Respiratory protection

NIOSH approved respirator

- Hand protection

Impervious gloves (rubber or neoprene)

- Eye protection

Chemical safety goggles Use a face shield if splashing is

possible.

- Skin and body protection

Hygiene measures

Body covering clothes and boots

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 Colourless to light straw liquid



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Boiling point/rangeNot determinableVapor pressureNot determinedViscosityNot determined

Solubility:

- Solubility in water Soluble
Density 0.98
pH 6-8
Voc content(%) 50%

10. Stability and reactivity

Stability Stable under normal conditions

Materials to avoid Strong oxidizing agents

Reducing agents
Keep away from heat.

Conditions to avoid

Hazardous decomposition

productsCO2, CO and HCI **Hazardous polymerization**Will not occur

11. Toxicological information

Acute toxicity:

Rat oral LD50
 Rat dermal LD50
 Eye irritation (rabbit)
 Dermal irritation (rabbit)
 445 mg/kg
 >1800 mg/kg
 Corrosive
 Severe irritant

Carcinogenicity Not classified by IARC.

Not included in NTP 11th Report on Carcinogens.

12. Ecological information

Information on ecological

effects

No information available

13. Disposal considerations

Waste disposal This substance, when discarded or disposed of, is a

characteristic hazardous easte according to Federal regulation

(40 CFR 261) and is assinged the EPA Hazardous



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Waster Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263 264 and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local

regulations. Chemical additions, processing or otherwise altering this material may make the waste

management information presented in this MSDS incomplete,

inaccurate or otherwise inappropriate.

14. Transportation information

UN No. 1903

DOT Disinfectant Liquid Corrosive (Quaternary Ammonium

Compound)

Class: 8 - Corrosives Label: CORROSIVE (8) Packing Group: III Class: 8 - Corrosives

IMO Class: 8 - Corrosives

Label: CORROSIVE (8) Packing Group: III

ICAO/IATA Packing group: III

Hazard Label (s): Corrosive

Class: 8

15. Regulatory information

USA All the ingredients in this preparation are reported in the EPA

TSCA Inventory. This product is subject to registration under

FIFRA

Listed

Sara 313 Not listed

Sara (311, 312) hazard class This product is categorized as an immediate health hazard

and fire hazard

- Massachusetts right-to-know

ist

New Jersey right-to-know listPennsylvania right to knowListed

list

ΕU

- Illinois toxic substances list Listed

Canada Listed in DSL

WHMIS hazard class
B3 combustible liquids
E corrosive material

Reported in EINECS

Japan One or more ingredients are not listed on the ENCS inventory



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China inventory Listed

Korea Listed in ECL
Philippines Listed in PICCS

16. Other information

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product.

This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product.

Additionally, if this Material Safety Data Sheet is more than three years old, you should contact NAVA Water products at the phone number listed below to make certain that this sheet is current.

Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use.

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End of safety data sheet