

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name BAN-DIS PINE DISINFECTANT (DF101S)

Manufacturer Banner Chemical Corp
111 Hill Street
Orange, NJ 07050

Telephone Numbers - 24 Hour Emergency Assistance

Medical 800-228-5635

Chemtrec 800-424-9300

Chemtrec Int'l 703-527-3887

General Assistance (973) 676-2900

Product Class Cationic/nonionic blend

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name CAS Number Percent

_Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1 1 %

_Di-(C8-10)-alkyl dimethyl ammonium chlorides 68424-95-3 0.8 %

_Dioctyldimethylammonium chloride 5538-94-3 0.4 %

_Didecyl dimethyl ammonium chloride 7173-51-5 0.4 %

3 HAZARDS IDENTIFICATION

Emergency Overview Amber liquid, **Danger! Corrosive** May be corrosive to the eyes. May cause moderate to severe skin irritation. May be harmful if swallowed.

Health Effects: Eyes This product may be corrosive to eyes.

Health Effects: Skin This product may cause irritation to the skin. This product may be harmful if it is absorbed through the skin.

Health Effects: Inhalation Exposure via inhalation not likely. High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.

Health Effects: Ingestion This product may be harmful if it is swallowed. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

4 FIRST AID MEASURES

Eyes Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention or advice.

Skin Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. Immediately flush with water. Get medical attention.

Inhalation If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion If the material is swallowed, get immediate medical attention or advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not induce vomiting.

Notes to Physician If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

5 FIRE FIGHTING MEASURES

Flash Point (> 93.9 °C), > 201 F PMCC **Extinguishing Media** Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment / Instructions Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES

Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through

spilled material. Wear appropriate personal protective equipment during cleanup. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Large Spills: Dike ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Surfaces may become slippery after spillage.

Handling Procedures

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash hands before eating, drinking, smoking, or using toilet facilities. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

7 HANDLING & STORAGE

Storage Procedures

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Avoid freezing or excessive heat.

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Eyes/Face

Wear chemical goggles and face shield.

Personal Protective Equipment: Skin

Wear suitable protective clothing. Use impervious gloves.

Personal Protective Equipment: Respiratory

If vapors are present or irritation is experienced, NIOSH approved respiratory protection for ammoniacal vapors should be worn.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

9 PHYSICAL & CHEMICAL PROPERTIES

Flash Point (> 93.9 °C), > 201 F PMCC

Specific Gravity (1.007 g/ml), 8.38 lb/gal (@ 25 C)

Vapor Pressure Not Determined or Unknown

Evaporation Rate Estimated slower than ethyl ether.

RVOC 0 %

Appearance and Odor Clear liquid,

Boiling Point (93.3 °C), 200 F

Percent Volatile 85 - 95 % (w/w)

Vapor Density Est. heavier than air.

pH Value 6.4 (as is)

Chemical Stability Stable w/ normal conditions.

10 STABILITY & REACTIVITY

Conditions to Avoid Avoid strong oxidizing agents.

Incompatibility This product is incompatible with anionic compounds, strong oxidizing agents,

Hazardous Decomposition Upon decomposition, this product may yield oxides of nitrogen and ammonia.

Hazardous Polymerization Will not occur.

Carcinogenicity Not listed as carcinogenic according to IARC, NTP or OSHA.

11 TOXICOLOGICAL INFORMATION

Other Toxicological Information

_Didecyl dimethyl ammonium chloride 7173-51-5

NIOSH - Selected LD50s and LC50s Oral LD50 Rat: 84 mg/kg; Oral LD50 Mouse: 268 mg/kg

_Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1

NIOSH - Selected LD50s and LC50s Oral LD50 Rat: 426 mg/kg; Oral LD50 Mouse: 919 mg/kg

Ecotoxicity Toxic to fish.

12 ECOLOGICAL INFORMATION

Environmental Fate This product is biodegradable.

Disposal Instructions CONTAINER DISPOSAL - Do not reuse empty container. Triple rinse empty container with water. Return metal drum then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. Offer for recycling if available. For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

13 DISPOSAL CONSIDERATIONS

14 TRANSPORT INFORMATION

DOT Proper Shipping Name Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

15 REGULATORY INFORMATION

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State Regulations This product may contain the following ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Ethylene Oxide (CAS RN: 75-21-8)

Nitritotriacetic acid (NTA) (CAS RN: 139-13-9)

Inventories This product is considered a pesticide, and is therefore excluded from the United States TSCA Regulations. There is no calculable reportable quantity (RQ) for this product.

Disclaimer

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16 OTHER INFORMATION

HAZARD RATINGS

Health

HMIS

3

Flammability

Reactivity

PPE

10

X

310

NFPA