

N/A-Not Applicable  
N/D-Not Determined  
N/E-Not Estimated

**MATERIAL SAFETY DATA SHEET**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. DEPARTMENT OF LABOR**  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Forms Approved  
OMB NO. 1218-0072

IDENTITY (As used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or information is available, the space must be marked to indicate that.

**Mildew Preventative**

**SECTION 1. Company Identification**

<b>MANUFACTURER'S NAME</b> Monaghan Corp.	<b>EMERGENCY TELEPHONE NUMBER</b> 1-800-424-9300
<b>ADDRESS</b> 2017 Dean Avenue Des Moines, Iowa 50317	<b>NUMBER FOR INFORMATION</b> 800-538-5802 Date Prepared: 03/3/06

**SECTION 2. Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Names)	OSHA	PEL	AGGREG TLV	OTHER LIMITS	%
N,N-DIDECYL-N,N-DIMETHYL-AMMONIUM CHLORIDE	NA	NA	NA	NA	NA
ETHYL ALCOHOL	1000 PPM	NA	NA	NA	NA

**SECTION 3. Hazards Identification**

**SECTION 4. Physical Characteristics**

Boiling Point: ND Specific Gravity (H2O +1): ND Vapor Pressure (mm Hg.): ND Melting Point: NA Vapor Density (Air =1): ND  
Evaporation Rate (Butyl Acetate =1): ND Solubility in Water: Soluble@60C Appearance & Odor: Colorless to pale yellow liquid-ethanol like

**SECTION 5. -Fire & Explosion & Hazard Data**

Flash Point (Method Used): 109 F Flammable Limits NA LEL: NA UEL: NA Extinguishing Media: Carbon Dioxide, dry chemical, Alcohol foam, water, Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self contained breathing apparatus and protective clothing.  
Unusual Fire and Explosion Hazards: Cool fire exposed containers with water spray

**SECTION 6. Reactivity Data**

Stability: Stable Conditions to Avoid: None known Incompatibility (Materials to Avoid) Strong Oxidizing agents, Strong reducing agents  
Hazardous Decomposition or Byproducts: Thermal decomposition may yield: Hydrogen chloride gas, Amines, Other toxic vapors, Oxide of carbon oxides of nitrogen  
Hazardous Polymerization: Will Not Occur Conditions to Avoid: Contact with water.

**SECTION 7. Health Hazard Data**

Routes of Entry: Eyes X Inhalation X Skin X Ingestion X  
Health hazard (Acute & Chronic) Direct skin contact may product severe irritation and/or burns and possible irreversible damage. Harmful if swallowed. Eye contact may product severe irritation and/or burns and possible irreversible damage. Vapor of product may cause irritation of mucous membranes. Prolonged inhalation may produce drowsiness, lassitude and inability to concentrate. Ingestion may cause immediate burning pain in mouth, throat, abdomen and sever swelling in the larynx. Skeletal muscle paralysis affecting the ability to breath. Maybe harmful or fatal if swallowed.  
Carcinogenicity: None NTP IARC Monographs OSHA Regulated

**SECTION 8. First Aid Measures**

Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface. Get medical attention immediately. Wash clothing and shoes before reuse. If inhaled, remove from area to fresh air. Get immediate medical attention. If not breathing clear airway and start artificial respiration. If victim is having problems breathing give supplemental oxygen. If swallowed, immediately give 3-4 glasses of milk(if milk is unavailable give water). Do not induce vomiting. If vomiting occurs, give fluids again. Do not give anything by mouth to a convulsing or unconscious person. Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous of a short acting barbiturate drug.

**SECTION 9. Precautions for Safe Handling & Use**

Steps to be taken in case material is released or spilled Remove all ignition sources, ground all equipment. Floor may become slippery. Wear NIOSH/MSHA respirator(Self contained) and appropriate protective equipment. Dike and contain spill with inert material (sand, earth). Transfer to container for recovery or disposal. Precautions to be taken in handling or storing: Do not contaminate drinking water, food or feed by storage of disposal. Store in compliance with MFPA code (NFPA 30). Max storage temperature 60 C. Keep closed when not in use, performance store in cool, dry area. Other Precautions: Keep spill out of sewers and open bodies of water.

**SECTION 10. Control Measures**

Respiratory Protection (Specify Type): NIOSH/MSHA respirator. Ventilation: Local Exhaust: NA Special: NA Mechanical  
(General): NAOther: NA Protective Gloves: Neoprene or rubber Eye Protection: Chemical splash goggles. Other Protective Clothing or Equipment: Wear apron/coverall Work/Hygenic Practices: Clean all spills immediately. Observe personal hygiene.

**SECTION 11. Toxicological Information**

See section 2. LC 50 of material, species & route N/A. LD 50 of material, specifies & route (oral-rat), 450 MG/KG (80%). (oral-rabbit), 4300 MG/KG (80%). (Dermal rabbit). Sensitizing capability of material A. 2% active solutions was not a skin sensitizer in guinea pigs via buehler test for sensitization. Reproductive effects. Rat: for didecyldmethylammonium chloride no reproductive effects for treatment at or below mild toxic effect levels. Mutagenicity: Salmonella: Not Mutagenic with or without metabolic activation (50% active). No evidence of chromosomal damage in the bone marrow of rats treated

**SECTION 12. Ecological Information**

Environmental toxicity information 96-HR bleu gill sunfish MG/L: .32 96-HR LC50 shrimp: .07 MG/L 48-HR ex-50 water flea(daphnia)MG/L. 94 MG/L

**SECTION 13. Disposal Considerations**

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

**SECTION 14. Transportation Information**

DISINFECTANTS, LIQUID, CORROSIVE, N.O.S., (ETHANOL), 8, UN 1903, III

**SECTION 15. Regulatory Information**

WHMIS CLASSIFICATION B3, D1B, E  
CPR COMPLIANCE This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the e CPR.

**SECTION 16. Other Information**

N/A