

MATERIAL SAFETY DATA SHEET

Issued Date: 01/04
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MOLD-CARE® MOLDICIDE CONCENTRATE

EPA Reg. No. 6836-212-64405

Health Emergencies: CHEMTREC® (800) 424-9300

SECTION I - PRODUCT IDENTIFICATION

Packaged and Distributed: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
(800) 264-0870
Fax: (865) 577-5825

Product Trade Name: MOLD-CARE® MOLDICIDE
CONCENTRATE

CAS No.: See Section 2 – CHEMICAL OR
HAZARDOUS COMPONENTS

Molecular Formula: Mixture

Chemical Name: (Active) N, N-Didecyl-N,
N-dimethyl ammonium chloride

SECTION II – CHEMICAL OR HAZARDOUS COMPONENTS

Chemical Name: N, N-Didecyl-N, N-dimethylammonium chloride

CAS No.: 7173-51-5

Approx. Wt%: 80%

Exposure Limit: None Established

Chemical Name: Ethyl alcohol

CAS No.: 64-17-5

Approx. Wt%: 10%

Exposure Limit: OSHA-PEL 1000 ppm ACGIH- TWA 1000 ppm

Chemical Name: Water

CAS No.: 7732-18-5

Approx. Wt%: 10%

Exposure Limit: None Established

SECTION III – POTENTIAL HEALTH EFFECTS

Primary Routes of Entry: Skin Contact, Eye Contact, Inhalation

Effects of Overexposure: Based on available animal toxicity information for this material, it is anticipated that direct skin or eye contact will produce severe irritation and/or chemical burns with possible irreversible damage. May be fatal if ingested. Ingestion can cause immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx. Ingestion can cause skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. Solvent vapors or mists of product may cause irritation of mucous membranes. Prolonged inhalation may produce drowsiness, lassitude and inability to concentrate.

Overexposure May Aggravate Existing Conditions:

No effects indicated.

Material Listed as Carcinogen by:

National Toxicology Program: No

I.A.R.C. Monographs: No

O.S.H.A.: No

SECTION IV – FIRST AID MEASURES

Skin Contact: Wash with plenty of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

Eye Contact: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention. If physician is not available, flush for an additional 15 minutes and then transport victim to medical care.

Inhalation: Remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available.

Ingestion: Immediately give 3-4 glasses of milk (if unavailable, water). DO NOT induce vomiting. If vomiting does occur, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to an unconscious or convulsing person.

Note 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.

SECTION V – FIRE AND EXPOSITION INFORMATION

Flash Point: 107 °F Setflash

Decomposition Temperature: Not Known

Self Ignition: Not Known

Lower Explosion Limit: Not Known

Upper Explosion Limit: Not Known

Extinguishing Media To Be Used: Carbon dioxide, Dry chemical, Alcohol foam, Water

Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Unusual Fire and Explosion Hazards: Products of combustion are toxic. Heated solvent vapors can travel to an ignition source and flash back.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Measures After Spillage / Leakage / Release: Danger-corrosive and combustible material. Remove all sources of ignition and ground all equipment before beginning cleanup. Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.). Transfer the solid and liquid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

SECTION VII – HANDLING AND STORAGE

Precautions for Storage and Handling: Maximum storage temperature: 140 °F. Store containers in compliance with the most recent NFPA Code (NFPA 30). Ground all containers prior to pouring. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection: In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Protective Gloves: Use rubber or neoprene gloves to prevent skin contact.

Eye Protection: Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Other Protective Equipment: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other as appropriate), when needed, to prevent skin contact.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Colorless to Pale Yellow
Odor: Ethanol-Like
Changes of Physical State
Freezing Point: 10 °C
Boiling Point: Not Known
Specific Gravity: 0.89 g/ml at 25 °C
Bulk Density: Not Applicable
Vapor Pressure: Not Known
Vapor Density (Air=1): Not Known
Max. Percent Volatile: 20%
Evaporation Rate (Butyl Acetate=1): Not Known
Viscosity: Not Known
Water Solubility: Soluble
pH-Value: 6.5 – 9 (10% active solution)

SECTION X – STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Hazardous Decomposition Products:

Thermal decomposition may produce toxic vapors/fumes of:

Hydrogen chloride, amines and other organic materials; and oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None Known

Incompatibility (materials to avoid):

Strong oxidizing or reducing agents

SECTION XI – TOXICOLOGY INFORMATION

No toxicity information is available for this product. The toxicity information provided is for a similar product(s) and/ or component(s) of this product.

Acute (80% active solution):

Oral LD₅₀: rat: 450 mg/kg
412 mg/kg (male); 292 mg/kg (female)
rabbit: 3342 mg/kg
Dermal LD₅₀: 4300 mg/kg (two tests)
Eye Irritation: rabbit: Extreme irritation that did not clear by day 7 post dose.
Skin Irritation: rabbit: Severe irritation that did not clear by day 7 post dose.

Acute (0.2% active solution):

Skin Sensitization: guinea pig: Not a sensitizer

Acute (50% active solution):

Skin corrosively: rabbit: Corrosive

Chronic (50% active solution):

Not mutagenic. Not clastogenic with or without metabolic activation. No evidence of chromosomal damage in the bone marrow of rats treated with 600 mg/kg. No statistically significant teratogenic effects observed with administration of doses from 10 to 50 mg/kg during day 6 through 15 of gestation (rat and rabbit).

SECTION XII – DISPOSAL CONSIDERATIONS

DISPOSAL

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

Container Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
rabbit).

SECTION XIV – TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Consumer Commodity ORM-D

BULK SHIPPING: Contact manufacturer.

FOR ADDITIONAL REGULATORY INFORMATION AND TOXICOLOGY INFORMATION CONTACT NISUS CORPORATION.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This information and product are furnished on the condition that the persons receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.



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