

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

NFPA Rating: Health-2; Flammability-1; Reactivity-0; Special- Manufacturer's Name: AMREP, INC. Address: 990 Industrial Park Drive Marietta, GA 30062 Date Prepared: 05/05/05 Information Calls: (770)422-2071 EMERGENCY RESPONSE NUMBER: 1(800)255-3924	HMIS Rating: Health-2; Flammability-1; Reactivity-0; Personal Protection-B DOT Hazard Classification: NON-REGULATED Identity (trade name as used on label): MISTY BIODET ND32 - PINE MSDS Number: B01223 Revision - 1 NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA
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SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	No	N/E	N/E	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: N/D	Specific Gravity (H2O=1): 1
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D
Vapor Density (Air = 1): N/D	Evaporation Rate (water = 1): 1
Solubility in Water: Miscible	Water Reactive: No
Appearance and Odor: Clear, yellow, non-viscous liquid with pine fragrance.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): >200°F TCC	SPECIAL FIRE FIGHTING PROCEDURES: Wear proper protective clothing including NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.	
EXTINGUISHER MEDIA: Carbon dioxide, dry chemical, water spray.	Unusual Fire & Explosion Hazards: When heated to decomposition in a fire, product may liberate noxious and/or toxic fumes. See Section #4.	

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Conditions to Avoid: High temperatures.	
Incompatibility (Mat. to avoid): Aluminum metal, anionic surfactants, anything reactive to water. Strong oxidizing or reducing agents.	
Hazardous Decomposition Products: Toxic vapors / fumes of hydrogen chloride. Oxides of carbon and nitrogen, unidentified organic compounds.	

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS	
Inhalation: Inhalation of spray or mist may cause irritation of respiratory tract tissues.	Skin Contact: Prolonged or repeated contact may cause irritation.
Eye Contact: Corrosive. Causes irreversible eye damage.	Ingestion: Moderate to severe irritation of gastrointestinal tract tissues. Toxic effects unlikely.
CHRONIC EFFECTS: None known.	
Medical Conditions Generally Aggravated by Exposure: Contact may aggravate pre-existing irritation.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): None needed under normal conditions of handling and usage, if needed use NIOSH approved self-contained breathing apparatus.	Eye Protection: Safety glasses or chemical goggles.
Protective Gloves: Rubber	Ventilation Requirements: Special ventilation is not needed under normal conditions of handling and usage.
Other Protective Clothing & Equipment: Eyewash station and safety shower.	
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps To Be Taken If Material Is Spilled Or Released: Do not allow large spills to contaminate sewers, ground or surface waters. Contain spill. Soak up in inert absorbent material. Place in leak-proof containers. Seal & label properly. Dispose of in a lawful manner.	
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.	
Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Protect from extreme heat (140°F) and cold.	

Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only



TECHNICAL DATA SHEET

B01223 Misty Biodet ND 32 - Pine

Description: A multi-purpose, neutral pH, germicidal detergent and deodorant effective in hard water up to 400 ppm (calculated as CaCO₃) in the presence of a moderate amount of soil (5% organic serum) according to the AOAC Use-dilution Test. Disinfects, cleans and deodorizes in one labor-saving step.

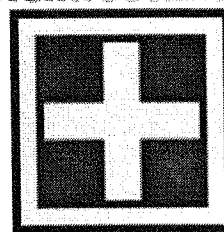
- Disinfectant • Pseudomonacidal • Staphylocidal • Salmonellacidal
- Bactericidal • Fungicidal • Mildewstatic • Virucidal

General Directions: See Example Label & MSDS for specific information regarding product usage. Always test in an inconspicuous area before general use.

Market Info:	USDA's Category Under Former Rating Program	N/A
	Dilution Ratio	1:10.5 to 1:32 See Label
Physical Properties:	Appearance	Clear
	Color	Yellow
	Fragrance/Odor	Pine
	Total Active (total minus aqueous contribution)	2.12%
	Evaporation Rate (Water=1)	1
	Solubility In Water	Miscible
	pH	7.2-8.2
	Specific Gravity	1.00
	Viscosity	<25 cps
	Weight per gallon (lb/gal)	8.38
	Boiling Point (F)	212 ^o F
	Freeze/Thaw Stable	Passes 3 cycles
Shelf Life	Minimum 1 yr.	
Environmental Profile:	2-Butoxyethanol (Butyl) E-Series or other Glycol Ethers	None
	Biodegradable surfactants; Water based formula	Yes
	% Phosphorus (elemental) (If < 0.5%, then express as PPM)	None
	Ozone Depleting Compounds	None
	Chlorinated Solvents, Fluorocarbons or Phenol Compounds	None
	Works at room temperature	Yes
	Dibutyl Phthalate; NTA; APE; NPE; DEA; Alcohol	None
	Acidic; Caustic; Corrosive; Reactive	No
	Contains heavy metals	No
	Recyclable Packaging	Yes
	Regulatory:	% VOC (by weight) concentrate
Meets Current Consumer Products VOC Guidelines (CA, OTC & Federal)		Yes
EPA Registered		Yes
Flammable (Flash point ≤ 142F)		No
HAPs (Hazardous Air Pollutants)		None
Combustible (Flash point > 142F, but ≤ 200F)		No
CA Safe Drinking Water (PROP. 65) Ingredients		None
Carcinogens, Mutagens, Teratogens (NTP, IARC, OSHA)		None
SARA TITLE III, Sect. 313 Reportable		No
DOT Hazard Classification		Non-Hazardous

Note: Additional unknown trace elements may alter results.

Disinfectants



HMIS Rating

Health=2

Flammability=1

Reactivity=0

Personal Protection=B

NFPA Rating

Health=2

Flammability=1

Reactivity=0

Manufactured by



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06/05