

MATERIAL DATA SAFETY SHEET

TENDER CORPORATION

Latest Revision Date
September 10, 1999

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LABEL NAME: BEN'S 100 INSECT REPELLENT

EPA REG. NO: 56575-7

SECTION I - GENERAL INFORMATION

MANUFACTURER:

**MORFLEX, INC.
2110 HIGH POINT ROAD
GREENSBORO, NC 27403
U.S.A.
919/292-1781**

DISTRIBUTOR:

**TENDER CORP
P.O. BOX 290
LITTLETON INDUSTRIAL PARK
LITTLETON, NH 03561, U.S.A.
800/258-4696**

EMERGENCY #'S: MORFLEX, INC.

919/292-1781

TENDER CORPORATION

800/258-4696

CHEMTREC

800/424-9300

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

ACTIVE INGREDIENT AND CHEMICAL NAME: N,N-Diethyl-m-Toluamide (DEET)

FORMULA: C₁₂H₁₇NO

CASE NAME: m-Toluamide, N,N-diethyl-

CAS NO: 134-62-3

NOTE: Component is not a mixture. See SECTION V.

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

ODOR, APPEARANCE AND PHYSICAL STATE: Clear oily liquid with mild characteristic odor.

BOILING POINT: 160°C @ 19 mm Hg

MELTING POINT: -45°F (POUR POINT)

VAPOR PRESSURE: 19 mm Hg @ 160°C

VAPOR DENSITY (AIR =1): 6.7

SPECIFIC GRAVITY: 0.996 @ 25/25°C

SOLUBILITY: Insoluble

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 311°F

METHOD: C.O.C.

EXTINGUISHING MEDIA: Foam, Dry Chemical, CO₂, Water Spray

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

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STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Incompatible with water. Hydrolyses slowly. Also incompatible with oxidizing materials.

HAZARDOUS POLYMERIZATION: Will not occur.

INHALATION: Practically non-toxic. Ihl (rat) LC₅₀ : 5950 mg/kgSKIN CONTACT: Slightly toxic by absorption. Skin (rbt) LD₅₀ : 3180 mg/kg. Essentially non-irritating by contact.INGESTION: Slightly toxic. Oral (rat) LD₅₀ : 1950 mg.kg

EYE CONTACT: May cause severe eye injury. Damage reversible.

EFFECTS OF OVEREXPOSURE: There have been some isolated cases of adverse systemic effects associated with excessive exposure to DEET. Most of these cases have involved long term, high dosage use of DEET on children.

CARCINOGENICITY: None of the components in this chemical are listed by IARC, NTP, or OSHA as a carcinogen.

SIGNS AND SYMPTOMS OF EXPOSURE: Dizziness, disorientation, may cause central nervous system (CNS) disturbances. Irritant to eyes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May cause CNS disturbances. Do not apply over cuts, wounds, or irritated skin. Avoid frequent application and saturation. Wash skin with soap and water after use.

EXPOSURE LIMITS: TLV (ACGIH): Not established.
PEL (OSHA): Not established.

SAFETY PRECAUTIONS: For external use only. Do not use on infants. Not recommended for use on children under age 10. Avoid breathing vapors or mist. Avoid contact with eyes and mucous membranes. Wash thoroughly after use.

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If breathing is difficult, administer oxygen.

SKIN CONTACT: Wash with soap if irritation occurs. Consult physician if irritation persists. May cause skin reactions in rare cases. If you suspect a reaction, wash area and call local poison control center.

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SECTION VII EMERGENCY AND FIRST AID PROCEDURES

INGESTION: If swallowed drink one or two glasses of water and induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention immediately.

EYE CONTACT: Immediately flush the eyes with plenty of water for at least 15 minutes. Get medical attention.

SECTION VIII PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Review Safety Precautions before proceeding with clean up. **BULK** - Use appropriate Personal Protection Equipment during clean up. Soak with sawdust, sand or other absorbent material. Flush spill area with water. **PERSONAL USE** - Absorb with sand. Flush area with water.

WASTE DISPOSAL METHOD: **BULK**-Treatment, storage, transportation, and disposal must be in accordance with Federal, State, and Local regulations. **PERSONAL USE** - Do not reuse empty bottle. Wrap and dispose of properly.

PRECAUTIONS TO BE TAKEN IN STORING: **BULK** - Store in a well ventilated area. Keep container tightly closed. Do not store or consume food, drink or tobacco in area where they may become contaminated with this material. Keep from moisture. **PERSONAL USE** - Store in a cool area away from heat or open flame.

OTHER PRECAUTIONS: Avoid contact with synthetic fabrics, plastics, leather, furniture and paints.

SECTION XI CONTROL MEASURES

RESPIRATORY PROTECTION: **BULK** - Use with adequate ventilation. The use of mechanical ventilation is recommended whenever this product is used in a confined space or heated above ambient temperature.

EYE/FACE PROTECTION: **BULK** - Use goggles or glasses with side shields.

HAND PROTECTION: **BULK** - Use impermeable gloves.