

MATERIAL SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

X-241

BUSINESS PHONE: (800) 654-0385EMERGENCY PHONE: (800) 535-5053MANUFACTURER NAME:Mavidon Medical Products
2105 7th Ave. North
Lake Worth, FL 33461DATE PREPARED: November 10, 1999DATE REVISED: May 3, 2000PREPARED BY: Hazardous Materials Compliance
Leesburg, FL 34748TRADE NAME: X-241PRODUCT CLASS: Industrial

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

<u>INGREDIENT(s)</u>	<u>CAS No.(s)</u>	<u>WT %</u>	<u>OSHA TWA</u>	<u>ACGIH TWA / STEL</u>
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Product is declared as a Trade Secret per 1910.1200 of 29 CFR.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear liquid, with an ester odor. Liquid and vapor are combustible. Vapor harmful; may affect the brain or central nervous system causing dizziness, headache or nausea. Overexposure may cause skin, eye or respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

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SECTION 3 – HAZARDS IDENTIFICATION - *continued*

EFFECTS OF OVEREXPOSURE – SKIN CONTACT: May cause skin irritation. May cause dermatitis.

EFFECTS OF OVEREXPOSURE – INHALATION: Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest and shortness of breath. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. May cause headache and nausea. Vapors may cause irritation of nose, throat and upper respiratory tract.

EFFECTS OF OVEREXPOSURE – INGESTION: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE – CHRONIC HAZARDS: May cause liver or kidney damage. Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. Chronic skin contact may cause dermatitis.

PRIMARY ROUTES OF ENTRY: Skin contact, Inhalation, Ingestion, Eye contact.

SECTION 4 – FIRST AID MEASURES

FIRST AID – EYE CONTACT: Flush eyes immediately with large amounts of water for at least 15-20 minutes while holding eyelids open. Get immediate medical attention.

FIRST AID – SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, administer oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If product is swallowed, do not induce vomiting. Give victim 2 glasses of water or milk if victim is not allergic to milk. Call a physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING PROCEDURES

FLASH POINT: 154F, 68C
(Setaflash closed cup)

LOWER EXPLOSIVE LIMIT: 4.3%
UPPER EXPLOSIVE LIMIT: 19.0%

AUTOIGNITION TEMPERATURE: ND

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OSHA FLAMMABILITY CLASSIFICATION: Combustible liquid - Class IIIA

EXTINGUISHING MEDIA: CO₂, Dry chemical, Foam, Water fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid and vapor. Keep containers tightly closed. Isolate from heat, electrical equipment, and sparks, open flame and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep containers cool that are involved in a fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full fire fighting protective clothing, including self-contained breathing apparatus (SCBA). Water spray may be ineffective. If water is used, fog nozzles are preferable. During a fire, thermal decomposition or combustion may generate irritating and/or toxic gasses and particulate.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

(LARGE SPILLS): Isolate area and remove all sources of ignition including: flames, hot surfaces, and static electricity. Eliminate electrical sources. Avoid breathing vapors. Use a self-contained breathing apparatus. Notify appropriate authorities if necessary. While wearing the appropriate proper protective clothing, contain spill with an inert, non-combustible absorbent and non-sparking tools. Avoid skin contact. Review msds completely before attempting recovery.

(SMALL SPILLS): Isolate area and remove all sources of ignition including: flames, hot surfaces, and static electricity. Eliminate electrical sources. Avoid breathing vapors. Use a self-contained breathing apparatus. Notify appropriate authorities if necessary. While wearing the appropriate proper protective clothing, contain spill with inert, non-combustible absorbent wipes and non-sparking tools if needed. Avoid skin contact. Review msds completely before attempting recovery.

SECTION 7 - HANDLING AND USE

HANDLING: Keep containers tightly closed and upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling material. Avoid breathing vapors or spray mists. Do not handle material until all safety precautions have been read and understood. Empty containers should not be reused. Use with adequate ventilation. Empty containers may contain residue and flammable vapors. Keep away from heat, sparks and flame. Do not cut, puncture, drag or slide container. Do not weld on or near the empty containers. Do not smoke in areas where this product is stored or being used.

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SECTION 7 - HANDLING AND STORAGE - continued

STORAGE: Keep container closed when not in use. Do not store or use near heat, sparks or open flame. Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements. Store only in well ventilated areas.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern & volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation using intrinsically safe equipment should be utilized to prevent flammable vapor / air mixtures from accumulating.

RESPIRATORY PROTECTION: Use a NIOSH / MSHA approved chemical / mechanical filter respirator designed to remove a combination of particulate and organic vapor if occupational limits are exceeded. For emergency situations, confined space use or other conditions where exposure limits may be exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29 CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing.

HYGENIC PRACTICES: Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 172 - 392 F

APPEARANCE: Clear

PHYSICAL STATE: Thick liquid

ODOR: Ester

SOLUBILITY IN WATER: Insoluble

FREEZE POINT: N.D.

VOLATILE BY WEIGHT: 99.0%

VAPOR PRESSURE: N.D.

COEFFICIENT OF WATER / OIL DISTRIBUTION: N.D.

(See section 16 for abbreviation legend)

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VAPOR DENSITY : Heavier than air

ODOR THRESHOLD: N.D.

EVAPORATION RATE: Slower than ether

DENSITY, LB / GAL.: 8.08

SPECIFIC GRAVITY: 0.97

PH: N/A

VOLATILE BY VOLUME: 99.0%

SECTION 16 - OTHER INFORMATION

HMIS RATINGS: HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0

*Indicates a chronic hazard; see section 3

Rating Scale: 0 - Minimal

1 - Slight

2 - Moderate

3 - High

4 - Severe

DATE OF PREPARATION: November 10, 1999

DATE OF REVISION: November 10, 1999

VOLATILE ORGANIC COMPOUNDS (CALCULATED): N.A.

LEGEND: N.A. - Not Applicable

 N.D. - Not Determined

 N.E. - Not Established

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