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MATERIAL SAFETY DATA SHEET – X-241

Section 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name: X-241

Emergency Telephone Number: 800.535.5053 **Business Telephone Number:** 800.654-0385

Manufacturer Name: Mavidon Medical Products

Address: 2105 7th Ave. North, Lake Worth, FL 33461

Date Prepared: November 10, 1999

Date Revised: May 3, 2000

Prepared By: Hazardous Materials Compliance, Leesburg, FL 34748

Revised Format: April 25, 2008

Product Class: Industrial

Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT(s)</u>	<u>CAS No.(s)</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.

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.

Section 3 – HAZARDS IDENTIFICATION - continued

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

FLASHPOINT: 154°F, 68°C
(Setaflash closed cup)

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

AUTOIGNITION TEMPERATURE: ND

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 wipes and non-sparking tools if needed. 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 STORAGE

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.

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 PROPERTIES

ENGINEERING CONTROLS: Sufficient ventilation in pattern and 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 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 PROTECTIONS: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROPERTIES - continued

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

<u>BOILING RANGE:</u>	172° - 392° F	<u>VAPOR DENSITY:</u>	Heavier than air
<u>APPEARANCE:</u>	Clear	<u>ODOR THRESHOLD:</u>	N.D.
<u>PHYSICAL STATE:</u>	Thick liquid	<u>EVAPORATION RATE:</u>	Slower than ether
<u>ODOR:</u>	Ester	<u>DENSITY, LB/GAL:</u>	8.08
<u>SOLUBILITY IN WATER:</u>	Insoluble	<u>SPECIFIC GRAVITY:</u>	0.97
<u>FREEZE POINT:</u>	N.D.	<u>PH:</u>	N/A
<u>VOLATILE BY WEIGHT:</u>	99.0%	<u>VOLATILE BY VOLUME:</u>	99.0%
<u>VAPOR PRESSURE:</u>	N.D.		
<u>COEFFICIENT OR WATER / OIL DISTRIBUTION:</u> (See section 16 for abbreviation legend)		N.D.	

Section 10 – STABILITY AND REACTIVITY

<u>CONDITIONS TO AVOID:</u>	High temperatures, source of ignition
<u>INCOMPATIBILITY:</u>	Strong acids, bases and oxidizers
<u>HAZARDOUS DECOMPOSITION PRODUCTS:</u>	Carbon monoxide, carbon dioxide
<u>HAZARDOUS POLYMERIZATION:</u>	Will not occur under normal conditions
<u>STABILITY:</u>	This product is stable under normal storage conditions.



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Section 11 – TOXICOLOGICAL INFORMATION

PRODUCT LD50 (ORAL): NO DATA

PRODUCT LD50 (DERMAL): NO DATA

PRODUCT LC50: NO DATA

Section 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Biodegradable, EPA Method 405.1 and 410.4

Section 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40 CFR part 261), state and local environmental control regulations. If waste is determined to be hazardous, use a licensed hazardous waste transporter and disposal facility.

Section 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED

DOT HAZARD CLASS: NONE

DOT UN / NA NUMBER: NONE

PACKING GROUP: NONE

EMERGENCY RESPONSE GUIDE: NONE

Section 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS FOLLOW:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and (40 CFR part 372):

-----CHEMICAL NAME-----	CAS NUMBER	WT% IS LESS THAN
NONE		



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Section 15 – REGULATORY INFORMATION - continued

TOXIC SUBSTANCES CONTROL ACT:

INVENTORY STATUS: The chemical substances in this product are on the TSCA Section 8 Inventory.

EXPORT NOTIFICATION: This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from United States.

Product is declared as a Trade Secret per 1910.1200 of 29 CFR.

INTERNATIONAL REGULATIONS FOLLOW:

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

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

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local regulations.