

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MAVIDON ACETONE

PART NUMBER:

GENERAL USE: Solvent

PRODUCT DESCRIPTION: Colorless liquid, extremely flammable, characteristic solvent odor.



MANUFACTURER'S NAME

Mavidon Medical Products

DATE PREPARED: April 9, 2009

SUPERSEDES: March 12, 2006

EMAIL ADDRESS: info@mavidon.com

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ADDRESS (NUMBER, STREET, P.O. BOX)

1820 2nd Avenue North

(CITY, STATE AND ZIP CODE)

Lake Worth, FL 33461

COUNTRY

USA

TELEPHONE NUMBER FOR INFORMATION

(561) 585-2227

EMERGENCY TELEPHONE NUMBER

Infotrac (800) 535-5053 Outside USA (352) 323-3500

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless flammable liquid, potentially hazardous vapors. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard Symbols for this product - F, Xi Risk Phrases - R11, 36, 66, 67

POTENTIAL HEALTH EFFECTS

INHALATION: High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis.

EYES: Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.

INGESTION: Moderately toxic; may cause headache, dizziness, diarrhea and general weakness; large doses may result in red blood cell hemolysis.

CARCINOGENICITY

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

SECTION 3 - HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS | % (by weight) | CAS # | EINECS # | Hazard Symbol | RISK PHRASES Full Text Section 16 |
|----------------------|------------------|---------|-----------|------------------|--------------------------------------|
| Acetone (a,b,c) | 100 | 67-64-1 | 200-662-2 | F, Xi | R-11, 36, 66, 67 |

(a) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

(c) Low-reactive organic compound which has been exempted as a VOC by the U.S. EPA.

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: Give two glasses of water for dilution; Induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is flammable. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA
 Carbon dioxide, water, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES
 Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat.
 Caution - material is flammable!

UNUSUAL FIRE AND EXPLOSION HAZARDS
 Closed containers can explode due to buildup of pressure when exposed to extreme heat. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back.

HAZARDOUS COMBUSTION PRODUCTS
 Smoke, fumes, oxides of carbon

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WILL SUPPORT COMBUSTION. Do not wash to sanitary sewer. All spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Flush area with water, recover flush for proper disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. This material will support combustion. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| HAZARDOUS COMPONENTS | NIOSH | | | | ACGIH | | | |
|----------------------|---------|-----------|----------|------------|---------|-----------|----------|------------|
| | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 |
| Acetone (a,b,c) | 250 | 590 | -- | -- | 500 | 1188 | 750 | 1782 |

(a) See Section 15

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.

EYE PROTECTION: Safety goggles with side shields Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------------|
| APPEARANCE AND ODOR Colorless liquid, characteristic solvent odor. | VAPOR PRESSURE 181 mm Hg @ 20° C |
| pH 7.0 | SPECIFIC GRAVITY (WATER = 1) 0.785 |
| BOILING POINT / BOILING RANGE 133° F (56.1° C) | SOLUBILITY IN WATER Complete |
| FLASH POINT 1.4° F (-17° C) TCC | VISCOSITY Not specified |
| FLAMMABLE LIMITS LEL: 2.0% UEL: 13.0% | VAPOR DENSITY (AIR = 1) 2.0 |
| AUTOIGNITION TEMPERATURE 869° F (465° C) | EVAPORATION RATE (WATER = 1) 7.7 |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|-------------------------------------|---|
| STABILITY UNSTABLE: STABLE: X | CONDITIONS TO AVOID: Extreme temperatures, open flames. |
|-------------------------------------|---|

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

| | |
|---|---------------------------|
| HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X | CONDITIONS TO AVOID: None |
|---|---------------------------|

SECTION 11 - TOXICOLOGICAL INFORMATION

| Hazardous Components | CAS # EINECS # | LD50 of Ingredient (Specify Species and Route) | LC50 of Ingredient (Specify Species) |
|----------------------|----------------------|---|---|
| Acetone (a,b,c) | 67-64-1 200-662-2 | 5800 mg / kg Oral - rat | 50,100 ppm / 8H Inhalation - rat |
| | | | |
| | | | |
| | | | |
| | | | |

SECTION 12 - ECOLOGICAL INFORMATION

| | | | | |
|--|-------|--|-------|------------------|
| Acute Alga Toxicity, seawater (ISO 10253) | 72 hr | Marine Algae (Skeletonema costatum) | EbC50 | ErC50 |
| Acute Toxicity, freshwater (OECD 203) | 96 hr | Rainbow Trout (Oncorhynchus mykiss) | LC50 | 5,540 mg / l |
| Acute Toxicity, seawater (PARCOM) | 96 hr | Juvenile Turbot (Scophthalmus maximus) | LC50 | |
| Acute Immobilization (OECD 202) | 48 hr | Water Flea (Daphnia magna) | EC50 | 13,500.00 mg / l |
| Acute Invertebrate Toxicity, seawater (PARCOM) | 48 hr | Marine Copepod (Acartia tonsa) | EC50 | |

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

SECTION 14 - TRANSPORT INFORMATION

| | |
|--|---|
| PROPER SHIPPING NAME: Acetone | IATA HAZARD CLASS / Packaging Group: 3 / II |
| DOT HAZARD CLASS / Packaging Group: 3 / II | IMDG HAZARD CLASS: 3 / II |
| REFERENCE: 49 CFR 173.150, .202, .242 | RID / ADR Dangerous Goods Code: 3 |
| UN / NA IDENTIFICATION NUMBER: UN 1090 | UN TDG Class / Packaging Group: 3 / II |
| LABEL: FLAMMABLE LIQUID | Hazard Identification Number (HIN): 33 |
| HAZARD SYMBOLS: F | |

Note: Transportation information provided is for reference only. Client is urged to consult 49 CFR 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories
 Immediate health, fire hazard

313 Reportable Ingredients:
 None

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 5,000 lbs) or greater amounts, according to 40 CFR 302.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D2B

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 2

VbK Index: A III

RISK PHRASES:

R11 Highly flammable.
 R36 Irritating to eyes.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

SYMBOL(S) REQUIRED FOR LABEL



SAFETY PHRASES:

S9 Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16 - OTHER INFORMATION

Notes & full R-Phrase text

R10 Flammable.
 R11 Highly flammable.
 R43 May cause sensitization by skin contact.
 R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

HMIS HAZARD RATINGS

| | | | |
|-------------------------------|---|---------------------------|--------------|
| HEALTH | 1 | * = Chronic Health Hazard | 2 = MODERATE |
| FLAMMABILITY | 3 | 0 = INSIGNIFICANT | 3 = HIGH |
| PHYSICAL HAZARD | 0 | 1 = SLIGHT | 4 = EXTREME |
| PERSONAL PROTECTIVE EQUIPMENT | B | Safety Glasses, Gloves | |

REVISION SUMMARY:

This MSDS has been revised in the following sections:
 Format update

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.