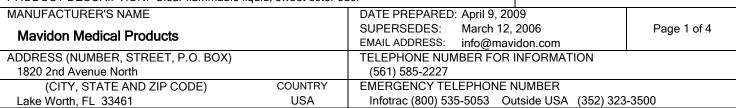
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HV COLLODION II

PART NUMBER:

GENERAL USE: Medical Skin Coating

PRODUCT DESCRIPTION: Clear flammable liquid, sweet ester odor



SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear amber extremely flammable viscous 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: F, Xn; Risk Phrases: R-11, 36, 66, 67

POTENTIAL HEALTH EFFECTS

INHALATION: Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes.

SKIN: Skin irritant, contact with the skin will cause irritation, local redness.

EYES: This product is an eye irritant. Contact with the eyes will cause irritation.

INGESTION: May cause gastric distress, vomiting and diarrhea.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

| | | | | | | | | | VTS |
|--|--|--|--|--|--|--|--|--|-----|
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|---|----------------|-----------|--------------|--------|----------------------|--|
| HAZARDOUS COMPONENTS | % | CAS# | EINECS# | Hazard | RISK PHRASES | |
| TIAZANDOUS COMPONENTS | (by weight) | CAS# | LINECS# | Symbol | Full Text Section 16 | |
| Ethyl acetate (a,b,c) | 85 - 95 | 141-78-6 | 205-500-4 | F, Xi | R-11, 36, 66, 67 | |
| Isopropyl alcohol | 3 - 7 | 67-63-0 | 200-661-7 | F, Xi | R-11, 36, 67 | |
| Nitrocellulose, colloided, granular (d) | 5 - 10 | 9004-70-0 | 603-037-01-3 | F | R-1, 3 | |

(a,c) 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.

⁽d) EU Index No. (European Union Index Number) is listed if EINECS (European Inventory of Existing Commercial Chemical Substances) number is not available.

PRODUCT NAME: HV COLLODION II

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek 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; DO NOT induce vomiting; seek medical attention; never give anything by mouth to an unconscious person.

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: CAUTION - FLAMMABLE - Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; for spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instructions concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

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. CAUTION - FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use nonsparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| HAZARDOUS COMPONENTS | | NIC | SH | | | AC | GIH | |
|---|---------|--------------|----------|------------|---------|--------------|----------|------------|
| TIAZANDOUS COMPONENTS | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 |
| Ethyl acetate (a,b,c) | | 1400 | | | | 1440 | | |
| Isopropyl alcohol | 400 | 980 | 500 | 1225 | 400 | 983 | 500 | 1230 |
| Nitrocellulose, colloided, granular (d) | ne | ot establish | ed | | ne | ot establish | ed | |

(a,c) See section 15

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required; however, if misting occurs, NIOSH approved respirator capable of removing particulate from air 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: Chemical splash 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.

PRODUCT NAME: HV COLLODION II

Not determined

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| | E | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| SECTION 9-PHISICAL | . AND CHEMICAL PROPERTIES |
|--|------------------------------|
| APPEARANCE AND ODOR | VAPOR PRESSURE |
| Clear viscous liquid, sweet ester odor | 76 mm Hg @ 20° C |
| рН | SPECIFIC GRAVITY (WATER = 1) |
| Not determined | 0.958 |
| BOILING POINT / BOILING RANGE | SOLUBILITY IN WATER |
| 172° F (77.8° C) | Slightly soluble |
| FLASH POINT | VISCOSITY |
| 24° F (-4.4° C) TCC | Not determined |
| FLAMMABLE LIMITS | VAPOR DENSITY (AIR = 1) |
| LEL: 2.0% UEL: 12.0% | >1 |
| AUTOIGNITION TEMPERATURE | EVAPORATION RATE (WATER = 1) |

< 1

STABILITY AND REACTIVITY

STABILITY UNSTABLE: CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks.

STABLE: X

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: CONDITIONS TO AVOID: None

WILL NOT OCCUR: X

SECTION 11 - TOXICOLOGICAL INFORMATION

| | 11 - TOXICOLOGIC | | LOFO -f.l |
|---|------------------|-----------------------------|---------------------|
| Hazardous Components | CAS# | LD50 of Ingredient | LC50 of Ingredient |
| riazardoda domponenta | EINECS # | (Specify Species and Route) | (Specify Species) |
| Ethyl costate (c.b.s) | 141-78-6 | 5620 mg / kg | 45,000 mg / kg / 2H |
| Ethyl acetate (a,b,c) | 205-500-4 | Oral - rat | Inhalation - mouse |
| laanzanul alaahal | 67-63-0 | 5840 mg / kg | 22,500 ppm / 4H |
| Isopropyl alcohol | 200-661-7 | Oral - rat | Inhalation - rat |
| Nitro - Nitro - Allaidad - Allaidad (d) | 9004-70-0 | > 5000 mg / kg | Not established |
| Nitrocellulose, colloided, granular (d) | 603-037-01-3 | Oral - rat | |
| | | | |
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| | | | |
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| (a,c) See section 15 | | | |

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

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: Nitrocellulose, solution, flammable

DOT HAZARD CLASS / Packaging Group: 3 / II IATA HAZARD CLASS / Packaging Group: 3 / II

REFERENCE: 49 CFR 173.150, .202, .242 IMDG HAZARD CLASS: 3 / II

UN / NA IDENTIFICATION NUMBER: UN 2059 RID / ADR Dangerous Goods Code: 3

LABEL: FLAMMABLE LIQUID UN TDG Class / Packaging Group: 3 / II

HAZARD SYMBOLS: F Hazard Identification Number (HIN): 33

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.

PRODUCT NAME: HV COLLODION II Page 4 of 4 April 9, 2009

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:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

(a) 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 = 5,500 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: B2

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: 1

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

VbK Index: A I

Flammable



Harmful



SAFETY PHRASES:

S16 Keep away from sources of ignition

S26 In case of contact with eves, rinse immediately with plenty of water and seek medical advice.

S33 Take precautionary measures against static discharges.

| | SECTION 16 - OTHER INI | FORI | MATION | | | | | | |
|----------------------------|--|---|--|---|--|--|--|--|--|
| Notes & full R-Phrase text | R11 Highly flammable. R36 Irritating to eyes. R66 Repeated exposure ma | R3 Extreme risk of explosion by shock, friction, fire or other soul R11 Highly flammable. | | | | | | | |
| HMIS HAZARD RATINGS | HEALTH FLAMMABILITY PHYSICAL HAZARD | 1 4 0 | * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT | 2 = MODERATE 3 = HIGH 4 = EXTREME | | | | | |
| | PERSONAL PROTECTIVE EQUIPMENT | В | 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.