



Safety Data Sheet

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This Safety Data Sheet complies with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1 Product Identifier

Steri-StripMC 3MMC Benzoin Tincture, USP Grade (Ref. No. C1544)

Product Identification Numbers

70-2004-6640-0 70-2004-7646-6 70-2007-1105-2 70-2011-8935-7 JH-2001-8080-2

1.2 Recommended Use and Use Restrictions

Intended Use

Adhesion enhancer

Use Restrictions

Not applicable

1.3 Supplier Details

Company:	3M Canada Company
Division:	Medical Solutions Division
Address:	1840 Oxford Street East, P.O. Box 5757, London, Ontario N6A 4T1
Phone:	(800) 364-3577
Website:	www.3M.ca

1.4 Emergency Phone Number

Medical emergency phone: 1-800-3M HELPS / 1-800-364-3577; Transportation emergency phone (CANUTEC): (613) 996-6666

SECTION 2: Hazard Identification

This product is not classified as hazardous under the Canadian Hazardous Products Regulations for the following reason(s): Cosmetic, device, drug, or food as defined in Section 2 of the Food and Drugs Act;

2.1. Classification of the Substance or Mixture

Flammable liquid: Category 2.

Serious eye damage/eye irritation: Category 2A:

Specific target organ toxicity (single exposure): Category 3.

2.2. Label Elements**Signal Word**

Danger

Symbols:

Flame | Exclamation mark |

Pictograms**Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary Statements**Prevention:**

Keep away from heat, hot surfaces, sparks, open flames, and all other ignition sources. No smoking. Ground/bond the container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof lighting, ventilation, and electrical equipment. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Wash exposed skin thoroughly after handling.

Response:

IF INHALED: Move the person to fresh air and keep them at rest in a position comfortable for breathing. IF ON SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER or a doctor if you feel unwell. In case of fire: Use an appropriate extinguishing agent for flammable liquids and solids, such as dry chemical powder or carbon dioxide.

Storage:

Store in a well-ventilated place. Keep cool. Keep locked up.

Disposal:

Dispose of contents/container in accordance with applicable local, regional, national, and international regulations.

2.3. Other hazards

None known.

24% of the mixture is made up of ingredients with unknown acute oral toxicity.

SECTION 3: Composition/Information on Ingredients

This material is a mixture.

Ingredient	CAS Number	% by Weight	Common Name
Ethyl alcohol	64-17-5	70 - 80	Ethanol

Aloe	8001-97-6	1 - 10	Natural pharmaceutical products, aloe
benzoin gum	9000-05-9	1 - 10	benzoin gum
Oils, Tolu balsam	8024-03-1	1 - 10	Oils, Tolu balsam
Balsam, Storax	8046-19-3	1 - 10	Balsam, Storax

SECTION 4: First-aid measures

4.1. Description of first-aid measures

Inhalation:

Move to fresh air. If you feel unwell, seek medical attention.

Skin contact:

Wash immediately with soap and water. Remove contaminated clothing and wash it before wearing again. If signs or symptoms occur, get medical attention.

If contact with eyes occurs:

Rinse immediately and thoroughly with water. Remove contact lenses, if present and easy to do, and continue rinsing. Get medical attention.

If swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No known critical symptoms or effects. See Section 11.1 for toxicological information.

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1. Suitable extinguishing media

In case of fire: Use an extinguishing agent suitable for flammable liquids and solids, such as dry chemical powder or carbon dioxide.

5.2. Specific hazards arising from the substance or mixture

Sealed containers exposed to heat may explode.

Hazardous decomposition by-products

Substance

Carbon monoxide
Carbon dioxide

Condition

During combustion
During combustion

5.3. Special protective equipment for firefighters

Water is not an effective extinguishing agent. However, it may be used to keep containers and fire-exposed surfaces cool and to help prevent rupture due to explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures Evacuate the area

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spills or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practices. **WARNING!** A motor could be an ignition source and cause a fire or explosion of flammable gases or vapors in the spill area. See other sections of this Safety Data Sheet for additional information on physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental Precautions

Avoid release to the environment.

6.3. Containment and Cleanup Methods and Materials

Contain the spill. Work from the outside edge toward the center. Cover with bentonite, vermiculite, or a commercially available inorganic absorbent. Add and mix in enough absorbent until the spill appears dry. Note: Adding an absorbent does not eliminate the physical, health, or environmental hazards. Collect as much spilled material as possible using non-sparking tools. Place in a metal container approved for transport by the appropriate authorities. Seal tightly in the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use only non-sparking tools. Take appropriate precautions to prevent static electricity discharge. Avoid breathing dust, fumes, mists, gases, vapors, or spray. Avoid contact with eyes, skin, or clothing. Do not eat, drink, or smoke while using this product. Wash hands thoroughly after use. Avoid release to the environment. Avoid contact with oxidizing agents (such as chlorine, chromic acid, etc.). Wear low-static or properly grounded footwear. To reduce the risk of ignition, identify applicable electrical requirements for use of this product and select appropriate local exhaust ventilation to prevent the buildup of flammable vapors. Ground/bond containers and receiving equipment if static electricity may build up during transfer.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Store in a well-ventilated area. Keep cool. Keep container tightly closed. Store away from heat; store away from acids; store away from oxidizers.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

Occupational Exposure Limits

If a component is disclosed in Section 3 but does not appear in the table below, no occupational exposure limit is available for that component.

Ingredient	Number CAS	Agency	Limit Type	Additional Notes
Ethyl alcohol	64-17-5	ACGIH	STEL:1000 ppm	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer Recommended Guideline

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

C: Ceiling Value

8.2. Exposure Controls

8.2.1. Engineering Controls

Provide general dilution ventilation and/or local exhaust ventilation to control airborne particulate exposure levels, ensure they remain below applicable exposure limits, and control dusts, fumes, gases, mists, vapors, or aerosols. If ventilation is inadequate, use respiratory protection. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment

Eye/face protection

Select and use eye/face protection to prevent contact, based on the results of an exposure assessment. The following eye protection is recommended:

Open-vent safety glasses.

Skin/hand protection

No chemical-protective gloves are required.

Respiratory protection:

An exposure assessment may be needed to determine whether respiratory protection is required. If respiratory protection is needed, use respirators as part of a complete respiratory protection program. Based on the exposure assessment results, choose one of the following respirator types to reduce inhalation exposure:

Half-face or full-face respirator suitable for organic vapors and particulates

For questions about a specific application, consult your respirator manufacturer.

SECTION 9: Chemical and physical properties

9.1. Information on key physical and chemical properties

Physical state	Liquid
Color	Reddish-brown
Odor	Distinctive odor
Odor threshold value	No data available
pH	Not applicable
Melting point/Freezing point	Not applicable
Boiling point	78.3 °C
Flash point:	22.2 °C [Test method:Open cup]
Evaporation rate:	3.2 [Ref Std:BUOAC=1]
Flammability (solid, gas)	Not applicable
Explosive limits (LEL)	No data available
Explosive limits (UEL)	No data available
Vapor pressure	5,332.9 - 5,732.8 Pa [Details:@ 25 C]
Vapor density and/or relative vapor density;	1.5 [Ref Std:Air=1]
Density	0.94 g/cm3
Relative density	0.94 [Ref Std:Water=1]
Water solubility	No data available
Solubility (non-water)	No data available
Partition coefficient: n-octanol/water	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity / Kinematic viscosity	2.9 mm2/sec [@ 23 °C]
Volatile Organic Compounds	6 lb/gal
Percent volatile content	74 - 80 %
VOC (less water and exempt solvents)	6 lb/gal

SECTION 10: Stability and Reactivity

10.1 Reactivity

This material may react with certain agents and under specific conditions—see the other headings in this section.

10.2 Chemical Stability

Stable.

10.3 Potential for Hazardous Reactions

Hazardous polymerization will not occur.

10.4 Conditions to Avoid

Heat
Sparks and/or open flames

10.5 Incompatible materials

Strong acids
Strong oxidizing agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

See Section 5.2, Hazardous decomposition, for a list of combustion products.

SECTION 11: Toxicological information

The information below may not align with the product classification in Section 2 if certain ingredient classifications were assigned by a competent authority. In addition, toxicological data for some ingredients may not be reflected in the product classification and/or in the signs and symptoms of exposure. One possible reason is that an ingredient may be present below the labeling threshold, an ingredient may not be available for exposure, or the data may not apply to the product as a whole.

11.1 Information on toxicological effects

Signs and symptoms of exposure

Based on test data and/or information on the components, this material may cause the following health effects:

Inhalation:

Respiratory tract irritation: Signs/symptoms may include coughing, sneezing, runny nose, headaches, hoarseness, and pain in the nose and throat. May cause additional health effects (see below).

Skin contact:

Skin contact with this product during normal use is not expected to cause significant irritation.

If eye contact occurs:

Severe eye irritation: Symptoms may include redness, swelling, pain, tearing, corneal clouding, and reduced vision with a risk of permanent damage.

Ingestion:

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting, and diarrhea. May cause additional health effects (see below).

Other health effects:**A single exposure may affect target organs:**

Central nervous system depression: Likely signs and symptoms include headache, dizziness, drowsiness, lack of coordination, nausea, slowed reaction time, speech difficulties, vertigo, and loss of consciousness.

Additional information:

This product contains ethanol. Alcoholic beverages and the ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. Data also link human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Ethanol exposure from the expected use of this product is not anticipated to cause cancer, developmental toxicity, or liver toxicity.

Toxicological data

If a component is listed in Section 3 but does not appear in a table below, either no data are available for that hazard or the data are insufficient to support a classification.

Acute toxicity

Name	Route	Species	Value
General product	Ingestion		No data available. Calculated ATE > 5,000 mg/kg
Ethyl alcohol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethyl alcohol	Inhalation – Vapor (4 hours)	Rat	LC50 124.7 mg/L
Ethyl alcohol	Ingestion	Rat	LD50 17,800 mg/kg

ATE = Acute Toxicity Estimate

Skin corrosion/irritation

Name	Species	Value
Ethyl alcohol	Rabbit	No significant irritation

Serious Eye Damage/Eye Irritation

Name	Species	Value
Ethyl alcohol	Rabbit	Severe irritant

Skin Sensitization

Name	Species	Value
Ethyl alcohol	Human	Not classified

Respiratory Sensitization

For the component(s), either no data are available for this hazard, or the data are insufficient to determine a classification.

Germ Cell Mutagenicity

Name	Route	Value
Ethyl alcohol	In Vitro	Some positive data are available, but they are not sufficient to support classification.
Ethyl alcohol	In Vivo	Some positive data are available, but they are not sufficient to support classification.

Carcinogenicity:

Name	Route	Species	Value
Ethyl alcohol	Ingestion	Multiple species animal	Some positive data are available, but they are not sufficient to support a classification.

Reproductive Toxicity**Effects on Reproduction and/or Development**

Name	Route	Value	Species	Test Result	Duration of Exposure
Ethyl alcohol	Inhalation	Not classified for developmental toxicity	Rat	No observed adverse effect level (NOAEL) 38 mg/L	during pregnancy
Ethyl alcohol	Ingestion	Not classified for developmental toxicity	Rat	No observed adverse effect level (NOAEL) 5,200 mg/kg/day	prior to mating and during gestation

Target organ(s)**Specific target organ toxicity — single exposure**

Name	Route	Target organ(s)	Value	Species	Test Result	Duration of Exposure
Ethyl alcohol	Inhalation	irritation respiratory	Some positive findings exist, but the data are not sufficient to support classification.	Human	LOAEL 9.4 mg/L	not available
Ethyl alcohol	Inhalation	central nervous system depression	Not classified	Human and animal	No observed adverse effect level (NOAEL) not available	
Ethyl alcohol	Ingestion	central nervous system depression	Not classified	Multiple animal species.	No observed adverse effect level (NOAEL) not available	
Ethyl alcohol	Ingestion	renal and/or bladder	Not classified	Dog	No observed adverse effect level (NOAEL) 3,000 mg/kg	

Specific target organ toxicity — repeated exposure

Name	Route	Target organ(s)	Value	Species	Test Result	Duration of Exposure
Ethyl alcohol	Inhalation	liver	Some positive findings exist, but the data are not sufficient to support classification.	Rabbit	LOAEL 124 mg/L	365 days
Ethyl alcohol	Inhalation	vascular system immune system	Not classified	Rat	No observed adverse effect level (NOAEL) 25 mg/L	14 days
Ethyl alcohol	Ingestion	liver	Some positive findings exist, but the data are not sufficient to support classification.	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethyl alcohol	Ingestion	renal and/or bladder	Not classified	Dog	No observed adverse effect level (NOAEL) 3,000 mg/kg/day	7 days

Aspiration hazard

For the component(s), either no data are available for this hazard or the available data are insufficient to determine a classification.

Please contact the address or telephone number indicated on the first page of the health and safety data sheet for further information on this material or its components.

SECTION 12: Ecological Information

No data available.

SECTION 13: Disposal Considerations

13.1. Disposal Methods

Dispose of contents/containers in accordance with local, regional, national, and international regulations.

Incinerate in a permitted waste incinerator. Drums/barrels/containers used to transport and handle hazardous chemicals (chemical substances, mixtures, preparations classified as hazardous under applicable regulations) must be treated, stored, handled, and disposed of as hazardous waste unless applicable waste-management regulations state otherwise. Consult the appropriate regulatory agencies to identify available treatment and disposal facilities.

SECTION 14: Transportation Information

For transportation information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory Information

15.1. Safety, health, and environmental regulations/legislation specific to the substance or mixture

Inventory status

Contact 3M for additional information. The components of this material comply with Australia's NICNAS (National Industrial Chemical Notification and Assessment Scheme) requirements; certain restrictions may apply. Please contact the Sales Division for more information. The components of this material comply with the requirements of the Philippines RA 6969; certain restrictions may apply. Please contact the Sales Division for more information. The components of this product comply with CEPA chemical notification requirements. This product complies with measures for the environmental management of new chemical substances. All ingredients are listed on, or exempt from, China's IECSC inventory.

SECTION 16: Other Information

NFPA Hazard Rating

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

The hazard ratings established by the National Fire Protection Association (NFPA) are intended to help emergency responders assess the hazards associated with short-term, acute exposure to a material during fires, spills, or other similar emergency situations. These ratings are based primarily on the material's physical and toxicological properties, as well as the toxic properties of combustion or decomposition products that may be generated in significant quantities.

HMIS Hazard Rating

Health: 2 Flammability: 3 Physical Hazards: 0 Personal Protection: B

The Hazardous Material Identification System (HMIS® IV) risk ratings are intended to inform employees about chemical hazards in the workplace. These ratings are based on the material's inherent properties under reasonably anticipated normal conditions of use and are not intended for emergency situations. HMIS® IV ratings should be used as part of a fully implemented HMIS® IV program. HMIS® is a registered trademark of the American Coatings Association (ACA).

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