



Safety Data Sheet

Sterillium Med Liquid Hand Sanitizer

Section 1. Identification

Product Identifier Sterillium Med Liquid Hand Sanitizer
Synonyms MSC097070 ; MSC097071 ; MSC097072 ; MSD_SDS0223
Manufacturer Stock MSC097070 ; MSC097071 ; MSC097072
Numbers

Recommended use In-door use.
Uses advised against Medicinal products. Restricted to professional users.

Manufacturer Contact Medline Industries, Inc.
Address 3 Lakes Drive
Northfield, IL, 60093
USA

Phone
(800) 633-5463

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(847) 643-4436

Website
www.Medline.com

Section 2. Hazards Identification

Classification EYE DAMAGE/IRRITATION - Category 2B
FLAMMABLE LIQUIDS - Category 2

Signal Word Danger

Pictogram



Hazard Statements	Causes eye irritation Highly flammable liquid and vapor
Precautionary Statements	
Response	If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Immediately call a poison center/doctor. Rinse mouth. In case of fire: Use water spray, alcohol resistant foam dry chemical or carbon dioxide to extinguish.
Prevention	Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wash affected area thoroughly after handling. Wear protective gloves/eye protection/face protection
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container to an approved waste disposal plant.
General	Keep out of reach of children
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	None known.
Emergency Overview:	Hazard Summary: Take measures to prevent the build up of electrostatic charge. According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
64-17-5	Ethyl alcohol	≥70-<90 %
71-23-8	1-Propanol	≥1-<5 %
112-72-1	1-Tetradecanol	≥1-<5 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General Advice:	If you feel unwell, seek medical advice (show the label where possible).
Eye Contact:	Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses, if worn. If irritation persists, seek medical attention.

Ingestion: If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Note to Physician: For specialist advice physicians should contact the Poison Information Service.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media In case of fire, use Dry Chemical, Foam, Carbon Dioxide (CO₂), Water spray

Unsuitable Extinguishing Media None.

Hazardous combustion products: No hazardous combustion products are known.

Further information: Standard procedure for chemical fires.

Special Fire Fighting Procedures: Self contained breathing apparatus and full protective clothing recommended.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Should not be released into the environment

Flammable Small Spill: Absorb with an inert dry material and place in an appropriate waste disposal container.

Flammable Large Spill: Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

Section 7. Handling and Storage

Handling Flammable: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/ fumes/ vapor/ spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage Flammable: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Materials to avoid: Keep away from food and drink.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Ethyl alcohol	STEL: 1,000 ppm Note: Upper respiratory track irritation. Confirmed animal carcinogen with unknown relevance to humans.	TWA: 1,000 ppm 1,900mg/mm3 29 CFR 1910.1000 Table Z-1 Limits	N/A
	1-Propanol	100 ppm TWA 200 ppm 500 mg/m3 NIOSH ST 250 ppm 625 mg/m3 NIOSH	200 ppm 500 mg/m3	250 ppm 625 mg/m3
	1-Tetradecanol	N/A	N/A	N/A

Personal Protective Equipment N/A

Protective measures: No special protective equipment required.

Work/hygienic practices: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Odor	Alcoholic
Odor Threshold	N.D.
Solubility	Completely miscible
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N.D.
Specific Gravity	1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	20° C/ 68° F
FP Method	ISO 3679
pH	N.A.

Melting Point	N.D.
Boiling Point	N.D.
Boiling Range	N.D.
LEL	62
UEL	N/A
Evaporation Rate	N.D.
Flammability	N.D.
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	N.A.
Vapor Density	0.81 g/cm ³ (20° C/ 68°F)

Lower explosion limit: Lower flammability limit
62 g/m³
(20° C/68° F)
Method: DIN EN 1839

Section 10. Stability and Reactivity

Stability: The product is chemically stable.
 Reactivity: No decomposition if stored and applied as directed.
 Possibility of Hazardous Reactions: None reasonably foreseeable.
 Conditions to avoid: Heat. Open flame. Sparks.
 Incompatibility (Materials to Avoid): None known.

Section 11. Toxicological Information

Likely Routes of Exposure: N.A.
 Acute Toxicity: Dermal Product:
 Acute toxicity estimate: > 5,000 mg/kg
 Method: Calculation method
 Acute Toxicity: Oral LD50: Ethyl Alcohol CAS No. 64-17-5
 Species: Rat
 6,200 mg/kg
 Acute Toxicity: Inhalation LC50 Ethyl Alcohol CAS No. 64-17-5
 Species: Rat
 124.7 mg/L
 4hours
 Acute Toxicity: Oral LD50: Propan-1-ol CAS-No. 71-23-8
 Species: Rat
 8,000 mg/kg
 Acute Toxicity: Inhalation LC50 Propan-1-ol CAS-No. 71-23-8
 Species: Rat
 > 33.8 mg/l
 Exposure time: 4h

Method: OECD Test Guideline 403

Acute Toxicity: Dermal LD50: Propan-1-ol CAS-No. 71-23-8
Species: Rabbit
4,032 mg/kg
Method: Calculation Method

Acute Toxicity: Oral LD50: Tetradecanol CAS-No 112-72-1
Species: Rat
>5,000 mg/kg
Method: OECD Test Guideline 401

Acute Toxicity: Inhalation LC50 Tetradecanol CAS-No 112-72-1
Species: Rat
0.375 mg/l
Exposure time: 4 hours
Test atmosphere: dust/mist

Acute Toxicity: Dermal LD50: Tetradecanol CAS-No 112-72-1
Species: Rabbit
>5,000 mg/kg

Skin corrosion/irritation: Product:
Result: No skin irritation. Ingredient:
Ethyl Alcohol CAS-No. 64-17-5
Species: Rabbit
Exposure time:24h
Method: Draize test
Result: Mild skin irritation Ingredient:
Propan-1-ol CAS-No. 71-23-8
Species: Rabbit
Result: No skin irritation
Ingredient:
Tetradecanol CAS-No. 112-72-1
Method: OECD Test guideline 404
Result: No skin irritation

Serious eye damage/Eye irritation: Product:
Result: Mild eye irritation
Ingredient:
Ethyl Alcohol CAS-No. 64-17-5
Species: Rabbit
Result: Mild eye irritation
Exposure time: 24h
Method: Draize test Ingredient:
Propan-1-ol CAS-No. 71-23-8
Species: Rabbit
Result: Irreversible effects on the eye
Ingredient:
Tetradecanol CAS-No. 112-72-1
Result: Eye irritation
Method: OECD Test Guideline 405

Respiratory/Skin Sensitization: Product:
N.A.

Respiratory/Skin sensitization: Ingredient:
Propan-1-ol CAS-No. 71-23-8
Species: Guinea pig
Test type: Maximization Test (GPMT)

	Method: OECD Test Guideline 406 Result: Did not cause sensitization on laboratory animals Ingredient: Tetradecanol CAS-No. 112-72-1 Method: OECD Test Guideline 406 Result: Did not cause sensitization on laboratory animals
Germ cell Mutagenicity:	Product: N.A. Ingredient: Propan-1-ol CAS-No. 71-23-8 Genotoxicity in vitro Test Type: in vitro test Result: negative
Carcinogenicity:	Product: Remarks: This information is not available. IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH Ethyl Alcohol CAS-No. 64-17-5 Confirmed animal carcinogen with unknown relevance to humans. OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive Toxicity:	Product: Effects on fertility: Remarks: This information is not available. Effects on fetal development: Remarks: This information is not available.
Specific Target Organ Toxicity - Single exposure:	Product: N.A.
Specific Target Organ Toxicity - Repeated exposure:	Product: N.A.
Repeated dose toxicity:	N.A.

Section 12. Ecological Information

Toxicity:	Product: Toxicity to Fish Remarks: N.A. Product Toxicity to Daphnia and Other Aquatic Invertebrates N.A. Product Toxicity to algae: N.A. Product Toxicity to Daphnia and Other Aquatic Invertebrates (Chronic toxicity) N.A. Product Toxicity to bacteria N.A.
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Toxicity: Ingredient
Toxicity to Fish:
Ethyl Alcohol CAS-No. 64-17-5
LC50 (Fish): 13,000 mg/l
Exposure time: 96h

Toxicity: Ingredient
Toxicity to Daphnia and Other Aquatic Invertebrates
Ethyl Alcohol CAS-No. 64-17-5
EC50 (Daphna magna (Water flea)): 12,340 mg/l
Exposure time: 48h
Ingredient
Toxicity to algae:
Ethyl Alcohol CAS-No. 64-17-5
EC50 (Pseudokirchneriella subcapitata (green algae)): 5,000 mg/l
Exposure time: 72 h

Toxicity: Ingredient
Toxicity to Fish:
Propan-1-ol CAS-No. 71-23-8
LC50 (Pimephales promelas (fathead monnow)): 4,555 mg/l
Exposure time: 96h
Test Type: flow-through test

Toxicity: Ingredient
Toxicity to Daphnia and Other Aquatic Invertebrates
Propan-1-ol CAS-No. 71-23-8
EC50 (Daphna magna (Water flea)): 3,644 mg/l
Exposure time: 48h
Method: DIN 38412
Ingredient
Toxicity to algae:
Propan-1-ol CAS-No. 71-23-8
NOEC (Chlorella vulgaris (Fresh water algae)): 1,150 mg/l
Exposure time: 48h

Ingredient
Toxicity to bacteria:
Propan-1-ol CAS-No. 71-23-8
IC50 (Bacteria): >1,000 mg/l
Exposure time: 3h
Method: OECD Test Guideline 209

Toxicity: Ingredient
Toxicity to Fish:
Tetradecanol CAS-No. 112-72-1
LC50 (Oncorhynchus mykiss (rainbow trout)): >100 mg/l
Exposure time: 96h
Method: ISO 7346/2

Toxicity: Ingredient
Toxicity to Daphnia and Other Aquatic Invertebrates
Tetradecanol CAS-No. 112-72-1
EC50 (Daphna magna (Water flea)): >1 mg/l
Exposure time: 48h
Method: OECD Test guideline 202
Ingredient
Toxicity to algae:
Tetradecanol CAS-No. 112-72-1

EC50 (Desmodesmus subspicatus (green algae)): > 1 mg/l

Exposure time: 72h

Test Type: static test

Method: OECD Test Guideline 201

Ingredient

Toxicity to Daphnia and Other Aquatic Invertebrates (Chronic toxicity)

Tetradecanol CAS-No. 112-72-1

NOEC (Daphnia magna (Water flea)): 0.0016 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211 Ingredient

M-Factor (Chronic aquatic toxicity)

Tetradecanol CAS-No. 112-72-1

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Persistence and
degradability:

Product:

Biodegradability

Result: Readily biodegradable

Remarks: The data is estimated based on the component aquatic toxicity classification. Ingredient

Biodegradability

Tetradecanol CAS-No. 112-72-1

Result: Readily biodegradable

Biodegradation: > 60%

Exposure time: 28 d

Method: OECD Test guideline 301B

Bioaccumulative potential:

Product:

N.A.

Mobility in soil:

Product:

N.A.

Other adverse effects:

Product:

Adsorbed organic bound halogens (AOX)

N.A.

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

Section 13. Disposal

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging:

Empty remaining contents. Store containers and offer for recycling of material when in accordance with the local regulations.

Section 14. Transport Information

UN Number

1993

UN Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (ethanol, isopropanol)
 DOT Classification 3
 Packing Group II
 IMDG - UN Number 1993
 IMDG - UN Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (ethanol, isopropanol)
 IMDG - Hazard Class: 3
 IMDG - Packing Group II
 IATA - UN Number: 1993
 IATA - UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol, isopropanol)
 IATA - Hazard Class: 3
 IATA - Packing Group: II

Section 15. Regulatory Information

SARA 311/312: Refer to Section 2 of the SDS.
 SARA 302: N.A.
 SARA 304: N.A.
 SARA 313: N.A.
 TSCA: All components are listed or exempt.
 CERCLA Hazardous Substance List: N.A.
 Clean Air Act (CAA) Section 112, 112 (r): N.A.
 New Jersey Right to Know Components: PROPYL ALCOHOL.
 ETHYL ALCOHOL.

 Massachusetts Right to Know Components: 1-PROPANOL. Ethanol.
 Pennsylvania Right to Know Components: 1-PROPANOL.
 ETHANOL.

 Rhode Island Right to Know Components: n-propyl alcohol.
 ethyl alcohol.

Section 16. Other Information

Revision Date 4/9/2019

 Legend N.A. - Not Applicable
 N.E. - Not Established
 N.D. - Not Determined

 HMIS (U.S.A.): Health Hazard 0
 HMIS (U.S.A.): Flammability 3

HMIS (U.S.A.): Physical Hazard 0

National Fire Protection Association (U.S.A): Health Hazard 0

National Fire Protection Association (U.S.A): Flammability 3

National Fire Protection Association (U.S.A): Instability Hazard 0

Additional Information

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