



Safety Data Sheet

STERILLIUM MED LIQUID HAND SANITIZER

Section 1. Identification

Product Identifier	STERILLIUM MED LIQUID HAND SANITIZER		
Synonyms	MSC097070 ; MSC097071 ; MSC097071H ; MSC097072		
Manufacturer Stock Numbers	MSC097070 ; MSC097071 ; MSC097072		
Recommended use	In-door use.		
Uses advised against	Medicinal products. Restricted to professional users.		
Manufacturer Contact Address	Medline Industries, Inc. One Medline Place Mundelein, IL, 60060 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300	(847) 643-4436
		CHEMTREC CHEMTREC	
	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 %
71-23-8	1-Propanol	>=1-<5 %
112-72-1	1-Tetradecanol	>=1-<5 %
64-17-5	Ethyl alcohol	>=70-<90 %

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 (CO ₂), 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
	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
	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
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: Keep away from 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

	<p>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</p>
Respiratory/Skin Sensitization:	<p>Product: N.A.</p>
Respiratory/Skin sensitization:	<p>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</p>
Germ cell Mutagenicity:	<p>Product: N.A. Ingredient: Propan-1-ol CAS-No. 71-23-8 Genotoxicity in vitro Test Type: in vitro test Result: negative</p>
Carcinogenicity:	<p>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.</p>
Reproductive Toxicity:	<p>Product: Effects on fertility: Remarks: This information is not available.</p> <p>Effects on fetal development: Remarks: This information is not available.</p>
Specific Target Organ Toxicity - Single exposure:	<p>Product: N.A.</p>
Specific Target Organ Toxicity - Repeated exposure:	<p>Product: N.A.</p>
Repeated dose toxicity:	<p>Product: N.A.</p>

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.
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:	<p>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</p> <p>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 1</p>
Persistence and degradability:	<p>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% Exposuere time: 28 d Method: OECD Test guideline 301B</p>
Bioaccumulative potential:	<p>Product: N.A.</p>
Mobility in soil:	<p>Product: N.A.</p>
Other adverse effects:	<p>Product: Adsorbed organic bound halogens (AOX) N.A.</p>
	<p>Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances</p> <p>Remarks This product neither contains, nor was manufactured with Class I or Clas II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).</p>

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 reglations.

Section 14. Transport Information

UN Number	1993
UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (ethanol, n-propanol)
DOT Classification	3
Packing Group	II
IMDG - UN Number	1993
IMDG - UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (ethanol, n-propanol)
IMDG - Hazard Class:	3
IMDG - Packing Group	II
IMDG - Label(s):	3
IMDG - EMS-No:	F-E, S-E
IMDG - Marine pollutant:	No
IATA - UN Number:	1993
IATA - UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (ethanol, n-propanol)
IATA - Hazard Class:	3
IATA - Packing Group:	II
IATA - Label(s)	3
Special precautions for user:	N.A.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N.A. for product as supplied.

Section 15. Regulatory Information

SARA Title III Section 304 Extremely Hazardous Substances Reportable Quantity:	This material does not contain any components with a section 304 EHS RQ.
SARA Title III Section 302 Extremely Hazardous Substances:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Title III Section 313 Toxic Chemicals:	This material does not contain any chemical components with known CAS No. that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
Clean Air Act:	This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61) This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.138, Subpart F).
Clean Water Act:	This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any Hazardous substances listed under the U.S. Clean Water Act, Section 311, Table 117.3
Massachusetts Right to Know Components:	Ethyl Alcohol CAS-No. 64-17-5 70-90% Propan-1-ol CAS-No. 71-23-8 1-5%
Pennsylvania Right to Know Components:	Ethyl Alcohol CAS-No. 64-17-5 70-90% Water CAS-No. 7732-18-5 10-20% Propan-1-ol CAS-No. 71-23-8 1-5%
New Jersey Right to Know Components:	Ethyl Alcohol CAS-No. 64-17-5 70-90% Water CAS-No. 7732-18-5 10-20% Propan-1-ol CAS-No. 71-23-8 1-5%
California Prop.65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
TSCA:	The components of this product are reported in the following inventories TSCA Inventory
Inventories:	AICS (Australia) DSL (Canada) IECSC (China) REACH (European Union) ENCS (Japan) ISHL (Japan) KECI (Korea) NZIoC (New Zealand) PICCS (Phillipines) TSCA (USA)

Section 16. Other Information

Revision Date 6/17/2015

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

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

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

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

HMIS (U.S.A.): Flammability 3

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

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