

# DeLaval Hand Sanitizer E

Preparation Date: 12-May-2020

Revision Date: 19-May-2020

Revision Number: 1

SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier Product Name DeLaval Hand Sanitizer E

2182

None

Other means of identification Item#: Synonyms

Recommended use of the chemical and restrictions on useRecommended useHand SanitizerUses advised againstAll other

Details of the supplier of the safety data sheet
Supplier DeLaval Clean

DeLaval Cleaning Solutions 11100 N. Congress Ave. Kansas City, MO 64153 Tel: 816-891-7700, 8am – 5pm M-F

# Emergency Telephone Number

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

# **Classification**

# OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

# Label Elements

**Emergency Overview** 

# DANGER

Hazard Statements Causes serious eye irritation Highly flammable liguid and vapor



#### Appearance Clear, Colorless

#### Physical state Liquid

Odor Alcohol

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use only non-sparking tools Take precautionary measures against static discharge Use explosion-proof electrical/ventilating/lighting/equipment

# **Precautionary Statements - Response**

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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use CO2, dry chemical, or foam for extinction.

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Water	7732-18-5	18.425
Ethyl alcohol	64-17-5	80
Glycerol	56-81-5	1.45
Hydrogen peroxide	7722-84-1	0.125

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first-aid measures

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	None under normal use conditions. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a physician.
Protection of First-aiders	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

# Most important symptoms and effects, both acute and delayed

May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. alcohol-resistant foam.

#### **Unsuitable Extinguishing Media**

None known based on information supplied.

#### Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

None.

Sensitivity to static discharge Yes.

#### **Protective Equipment and Precautions for Firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

NFPA Health hazards 2 Flammability 3 Instability 0

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment. For personal protection see section 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other Information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

#### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

#### Methods and material for containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

# 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Handling

Use personal protective equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

# Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a well-ventilated place. Keep cool.

Incompatible	Materials
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None known

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	3300 ppm
Glycerol 56-81-5		TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	-
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>	75 ppm

# Appropriate engineering controls

Engineering Controls Showers, eyewash stations, and ventilation systems.

### Individual protection measures, such as personal protective equipment

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Eye/face Protection	Tightly fitting safety goggles.
Skin and body protection	Wear suitable gloves. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance	Liquid Clear, Colorless	Odor Odor Threshold	Alcohol No information available
<u>Property</u> pH Melting point/freezing point Boiling Point/Range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	Values No information available No information available 78.3 °C / 172.9 °F 17.5 °C / 63.5 °F No information available No information available	<u>Remarks/ Method</u>	
Upper flammability limit	No information available		

Lower flammability limit Vapor Pressure Vapor Density Specific Gravity Water Solubility	No information available No information available No information available No information available No information available
Partition coefficient:	No information available
n-octanol/water Autoignition Temperature	No information available
Decomposition temperature	No information available
Viscosity of Product	No information available
Dynamic viscosity	No information available
Other information	

Liquid Density

No information available

# **10. STABILITY AND REACTIVITY**

#### **Reactivity**

No adverse reactions expected under normal conditions of use.

# Chemical Stability

Stable under normal conditions.

#### Possibility of hazardous reactions None known.

<u>Conditions to Avoid</u> Heat, flames and sparks.

#### Incompatible Materials None known

# Hazardous decomposition products

None known.

# **11. TOXICOLOGICAL INFORMATION**

#### Principal Routes of Exposure

Eye contact, Skin contact, Ingestion, Inhalation

#### Information on likely routes of exposure

Eyes Skin Ingestion Inhalation

### Causes serious eye irritation. May cause redness, itching, and pain. Causes mild skin irritation. Prolonged contact may cause redness and irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of respiratory tract. May be harmful if inhaled. May cause drowsiness and dizziness.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation Serious eye damage/eye irritation	May cause skin irritation. Causes serious eye irritation.
Sensitization	Product is not identified as a sensitizer according to OSHA regulations.
Mutagenic effects	Product is not identified as a mutagen according to OSHA regulations.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	-	Known	Х
64-17-5				
Hydrogen peroxide	A3	Group 3	Not Listed	Not Listed
7722-84-1				
Legend:				

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer) Group 3 - Not classifiable NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Reproductive Effects	Product is not identified as having reproductive effects according to OSHA regulations.
STOT - single exposure	Causes damage to organs through prolonged or repeated exposure.
STOT - repeated exposure	Product is not identified as having single target organ toxicity (repeated exposure)
	according to OSHA regulations.
Aspiration Hazard	Product is not identified as an aspiration hazard according to OSHA regulations.

# Aspiration Hazard

# Numerical measures of toxicity

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water 7732-18-5	> 90 mL/kg (Rat)	No data available	No data available
Ethyl alcohol 64-17-5	= 7060 mg/kg(Rat)	>20000 mg/kg (rabbit)	124.7 mg/L (rat)
Glycerol 56-81-5	= 12600 mg/kg (Rat)	21900 mg/kg (Rat)	> 570 mg/m³(Rat)1 h
Hydrogen peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m³(Rat)4 h

81.45% of the mixture consists of ingredient(s) of unknown toxicity

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Ethyl alcohol	No data available	100: 96 h Pimephales	EC50 = 34634 mg/L 30 min	10800: 24 h Daphnia magna
64-17-5		promelas mg/L LC50 static	EC50 = 35470 mg/L 5 min	mg/L EC50 2: 48 h Daphnia
		12.0 - 16.0: 96 h		magna mg/L EC50 Static
		Oncorhynchus mykiss mL/L		9268 - 14221: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L LC50
		96 h Pimephales promelas		
		mg/L LC50 flow-through		
Glycerol	No data available	51 - 57: 96 h Oncorhynchus	No data available	500: 24 h Daphnia magna
56-81-5		mykiss mL/L LC50 static		mg/L EC50
Hydrogen peroxide	2.5: 72 h Chlorella vulgaris	10.0 - 32.0: 96 h	No data available	18 - 32: 48 h Daphnia
7722-84-1	mg/L EC50	Oncorhynchus mykiss mg/L		magna mg/L EC50 Static
		LC50 static 16.4: 96 h		7.7: 24 h Daphnia magna
		Pimephales promelas mg/L		mg/L EC50
		LC50 18 - 56: 96 h Lepomis		
		macrochirus mg/L LC50		
		static		

# Persistence and degradability

No information available.

# **Bioaccumulation/Accumulation**

No information available.

# Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Waste Disposal Method	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated Packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

# 14. TRANSPORT INFORMATION

DOT	
UN-No	1170
Proper Shipping Name	Ethanol solution
Hazard Class	3
Packing Group	11
Special Provisions	24, IB2, T4, TP1

# **15. REGULATORY INFORMATION**

#### **California Proposition 65**

The list of Proposition 65 chemicals lists "Ethyl alcohol in alcoholic beverages" and is intended to cover only that use of Ethyl Alcohol.

State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	Х	X	Х
Glycerol 56-81-5	Х	X	Х
Hydrogen peroxide 7722-84-1	X	X	Х

U.S. EPA Label information

EPA Pesticide registration number Not applicable

# **16. OTHER INFORMATION**

Preparation Date:	12-May-2020
Revision Date:	19-May-2020
Revision Note:	None
Disclaimer	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

End of SDS