



# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

VELTEK ASSOCIATES, INC.

Date of issue: 07/22/2005

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
 Product name : DECON-Hand® Instant Hand Sanitizer  
 Product code : SDS DH-98-01

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Sanitizer  
 For professional use only

#### 1.3. Details of the supplier of the safety data sheet

Veltek Associates, Inc.  
 15 Lee Blvd  
 Malvern, PA 19355-1234 USA  
 T +1 610-644-8335 - F +1 610-644-8336  
 vai@sterile.com

In Canada Distributed by:

CCR  
 200 Terence Matthews  
 Kanata, ONT K2M 2C6  
 Telephone: 613-591-0044

#### 1.4. Emergency telephone number

Emergency number : CARECHEM 24 call: 1-866-928-0789

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flammable liquids Category 2 H225  
 Serious eye damage/eye irritation Category 2A H319  
 Skin sensitization, Category 1 H317  
 Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
 P233 - Keep container tightly closed  
 P240 - Ground/Bond container and receiving equipment  
 P241 - Use explosion-proof electrical, lighting, ventilating equipment  
 P242 - Use only non-sparking tools  
 P243 - Take precautionary measures against static discharge  
 P261 - Avoid breathing vapors  
 P264 - Wash hands thoroughly after handling  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use alcohol resistant foam, Dry powder, carbon dioxide (CO<sub>2</sub>), Water spray to extinguish  
P403+P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to an authorized waste collection point

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Ethanol	(CAS-No.) 64-17-5	50 - 70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Water	(CAS-No.) 7732-18-5	30 - 40	Not classified
Glycerol	(CAS-No.) 56-81-5	< 1	Not classified
1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol	(CAS-No.) 102-60-3	< 1	Eye Irrit. 2A, H319
Ethylacetate	(CAS-No.) 141-78-6	< 1	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
(R)-p-mentha-1,8-diene, d-limonene	(CAS-No.) 5989-27-5	< 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : If skin irritation or rash occurs: Get medical advice/attention. Wash skin with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain immediate medical attention.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Ingestion may cause irritation of the gastrointestinal tract.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reactivity : Stable under normal conditions.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Move containers from fire area if you can do it without risk. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Remove ignition sources. Ventilate area. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use chemically protective clothing.

Emergency procedures : Remove ignition sources. Ventilate area. Use only non-sparking tools. Avoid inhalation of vapors. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

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

Methods for cleaning up : Use non-sparking tools. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing vapors. Avoid contact with skin, eyes and clothing.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Keep only in original container. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Acids. alkalis. Oxidizing agents. Peroxides. Combustible materials. Halogens. Metals. Metallic salts.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Glycerol (56-81-5)		
ACGIH	Remark (ACGIH)	URT irr
Ethylacetate (141-78-6)		
ACGIH	ACGIH TWA (ppm)	400 ppm
ACGIH	Remark (ACGIH)	URT & eye irr

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ethylacetate (141-78-6)		
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	400 ppm

### 8.2. Exposure controls

Appropriate engineering controls	: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Provide good ventilation in process area to prevent formation of vapor.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Not required for normal conditions of use.
Eye protection	: Not required for normal conditions of use. Wear goggles or safety glasses with side shields if contact with the eyes is possible.
Skin and body protection	: Wear lab coat or apron to prevent prolonged or repeated skin contact with areas of the body other than the hands. This product is for use on the hands only.
Respiratory protection	: Not required for normal conditions of use.
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear. gel.
Color	: Colorless
Odor	: Alcohol Citrus fruits
Odor threshold	: No data available
pH	: 6 - 8
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 173 °F (78°C)
Flash point	: 70 °F (21°C) (Open cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.734 (Water = 1)
Solubility	: Miscible with water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 5000 - 30000 cP
Explosion limits	: No data available
Explosive properties	: Vapors may form explosive mixture with air.
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.2. Chemical stability

Highly flammable liquid and vapor.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Extremely high or low temperatures. Avoid friction, sparks, or other means of ignition.

### 10.5. Incompatible materials

Acids. alkalis. Oxidizing agents. Peroxides. Metals. Combustible materials. Halogens. Metallic salts.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Hydrogen chloride. Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Ethanol (64-17-5)</b>	
LD50 oral rat	10470 mg/kg
LC50 inhalation rat (mg/l)	117 - 125 mg/l - 4 Hours

<b>Glycerol (56-81-5)</b>	
LD50 oral rat	12600 mg/kg
LD50 dermal rat	> 21900 mg/kg

<b>(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)</b>	
LD50 oral rat	4400 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	4400.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
pH: 6 - 8

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 6 - 8

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

<b>Ethanol (64-17-5)</b>	
IARC group	1 - Carcinogenic to humans

<b>(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Ingestion may cause irritation of the gastrointestinal tract.

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Ecology - water : Avoid release to the environment.

#### Ethanol (64-17-5)

LC50 fish	11200 mg/l (calculated value)
EC50 Daphnia	5012 mg/l (calculated value) (freshwater)
EC50 Daphnia 2	857 mg/l (calculated value) (marine water)

#### Glycerol (56-81-5)

LC50 fish	> 1000 mg/l 96 Hours
EC50 Daphnia	> 500 mg/l 24 Hours - Daphnia magna

#### (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)

LC50 fish	0.619 - 0.796 mg/l 96 Hours - Pimephales promelas
LC50 other aquatic organisms	35 mg/l 96 Hours - Oncorhynchus mykiss

#### 12.2. Persistence and degradability

#### DECON-Hand® Instant Hand Sanitizer

Persistence and degradability	May cause long-term adverse effects in the environment. D-Limonene is expected to undergo biodegradation under aerobic conditions, but it is not expected to undergo biodegradation under anaerobic conditions.
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#### 12.3. Bioaccumulative potential

#### DECON-Hand® Instant Hand Sanitizer

Bioaccumulative potential	Not established.
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#### Ethanol (64-17-5)

Bioconcentration factor (BCF REACH)	3
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#### (R)-p-mentha-1,8-diene, d-limonene (5989-27-5)

Bioconcentration factor (BCF REACH)	660
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1170 Ethanol, 3, II

UN-No.(DOT) : UN1170

Proper Shipping Name (DOT) : Ethanol

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Packing group (DOT) : II - Medium Danger  
Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Special Provisions (49 CFR 172.102) : 24, IB2, T4, TP1  
DOT Packaging Exceptions (49 CFR 173.xxx) : 4b;150  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : A  
Emergency Response Guide (ERG) Number : 127

### Transportation of Dangerous Goods

Transport document description : UN1170 ETHANOL (more than 24 per cent ethanol, by volume), 3, II  
UN-No. (TDG) : UN1170  
Proper Shipping Name (Transportation of Dangerous Goods) : ETHANOL  
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids  
Packing group : II - Medium Danger  
TDG Special Provisions : 150  
Explosive Limit and Limited Quantity Index : 1 L  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L

### Transport by sea

UN-No. (IMDG) : 1170  
Proper Shipping Name (IMDG) : ETHANOL (ETHYL ALCOHOL)  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : II - substances presenting medium danger  
EmS-No. (1) : F-A  
EmS-No. (2) : S-B

### Air transport

UN-No. (IATA) : 1170  
Proper Shipping Name (IATA) : Ethanol  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### DECON-Hand® Instant Hand Sanitizer

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
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#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Glycerol (56-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol (102-60-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Ethylacetate (141-78-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb
<b>(R)-p-mentha-1,8-diene, d-limonene (5989-27-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2. International regulations

#### CANADA

<b>DECON-Hand® Instant Hand Sanitizer</b>	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

#### EU-Regulations

No additional information available

#### National regulations

<b>Ethanol (64-17-5)</b>	
Listed on IARC (International Agency for Research on Cancer)	

### 15.3. US State regulations

<b>Ethanol (64-17-5)</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
<b>Glycerol (56-81-5)</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
<b>Ethylacetate (141-78-6)</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	

## SECTION 16: Other information

Revision date	: 08/10/2017
Other information	: The chemical classification under GHS requires that the basic active ingredient chemical, ethanol, must be based on single exposure as some individuals may be sensitive to the chemical before using it for the first time. This product is registered under FDA NDC 64307-001.

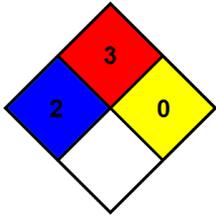
Full text of H-phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

# DECON-Hand® Instant Hand Sanitizer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur * - Chronic (long-term) health effects may result from repeated overexposure	
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
Personal protection	: G G - Safety glasses, Gloves, Vapor respirator	

SDS US (GHS HazCom 2012)

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