



# Defense-X Hand Sanitizer

Safety Data Sheet  
Date of Issue: 04/14/2020

## SECTION 1: Identification

Product Form : Mixture  
Product Name : Defense-X Hand Sanitizer  
Product code : 754321

1.2. Relevant identified uses of the substance or mixture and uses advised against:  
Use of the mixture : Hand sanitizer

1.3. Details of the supplier of the safety data sheet  
WALLA WALLA ENVIRONMENTAL, INC.  
4 West Rees  
Walla Walla,  
Phone: 509-522-0490 Fax: 509-522-0351  
E-MAIL: [SAFETY@WALLAENVIRONMENTAL.COM](mailto:SAFETY@WALLAENVIRONMENTAL.COM) WWW.WALLAENVIRONMENTAL.COM

1.4. Emergency telephone number  
Emergency number : Walla Walla Environmental: 509-522-0490

## SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture  
GHS-US classification  
Flam. Liq. 2 H225  
Eye Irrit. 2A H318  
STOT SE 3 H338

## 2.2. Label elements

GHS-US labelling  
Hazard pictograms (GHS-US)



Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H226 - Flammable liquid and vapor  
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 appropriate measures against static discharge  
P280 - Wear eye protection  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P337+P313 - If eye irritation persists: Get medical advice/attention  
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) for extinction  
P501 - Store in a well-ventilated place. Keep cool  
P901 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards:  
Other hazards not contributing to the classification : None.  
2.4. Unknown acute toxicity (GHS-US)  
No data available

## SECTION 3: Composition/Information of Ingredients

Name	Product Identifier	%
Isopropyl Alcohol 99%	CAS No) 67-53-0	75
Inert Ingredients	CAS No) 8007-02-1	1
Lemon Grass Oil	CAS No) 7732-18-5	21.5
Water	CAS No) 50-41-5	1
Glycerin	CAS No) 7732-84-1	1.5

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

First-aid measures general

: Check the vital functions; Unconscious: maintain adequate airway and respiration. Respiratory arrest; artificial respiration or oxygen. Cardiac arrest; perform resuscitation. Victim conscious with labored breathing; half-seated. Victim in shock: on his back with legs slightly raised. Vomiting; prevent asphyxiation/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching on the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.  
: Raise immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.  
: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre ([www.big.be/antiflgflm](http://www.big.be/antiflgflm)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

Symptoms/injuries after Inhalation

: EXPOSURE TO HIGH CONCENTRATIONS: Coughing, Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

Symptoms/injuries after skin contact

: Irritation of the eye tissue.  
: AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disorientation of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.  
: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

No additional information available

5.1. Extinguishing media  
Suitable extinguishing media

## SECTION 5: Firefighting measures

: Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.  
EN (English)

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Critical pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Solubility	: Soluble in water.
Viscosity, kinematic	: 2,5316 mm <sup>2</sup> /s (25 °C)
Explosive properties	: Not Explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing
Explosive limits	: Not explosive

<b>9.2. Other information</b>	
Minimum ignition energy	: 0.65 mJ
Specific conductivity	: 5.8 µS/m
Saturation concentration	: 106 g/m <sup>3</sup>
NOC content	: 100 %
Other properties	: Gas/vapor heavier than air at 20°C. Clear. Volatile.

### SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	
Not classified as a reactivity hazard	
<b>10.2. Chemical stability</b>	
Stable under normal conditions.	
<b>10.3. Possibility of hazardous reactions</b>	
Vapours may form explosive mixture with air.	
<b>10.4. Conditions to avoid</b>	
Heat, flames and sparks	
<b>10.5. Incompatible materials</b>	
Ammonia, Strong acids, Strong oxidizers.	
<b>10.6. Hazardous decomposition products</b>	
No hazardous decomposition products are known	

### SECTION 11: Toxicological information

<b>11.1. Information on toxicological effects</b>	
Acute toxicity	: Not classified
<b>Defense-X</b>	
LD50 oral rat	: 5045 mg/kg (5840 mg/kg bodyweight; Rat; Rat; Experimental value; 5840 mg/kg bodyweight; Rat; Rat; Experimental value)
LD50 dermal rabbit	: 12870 mg/kg (16.4; Rabbit; Rabbit; Experimental value; 16.4; Rabbit; Rabbit; Experimental value)
LC50 inhalation (rat (mg/l))	: 73 mg/l/4h (Rat)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye/irritation.
Respiratory or skin sensitization	: Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>Defense-X</b>	
IARC group	: 3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified

<b>Appliation hazard</b>	
Symptoms/injuries after inhalation	: Not classified
Symptoms/injuries after skin contact	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing, Dry/sore throat, Central nervous system depression, Dizziness, Headache, Nausea.
Symptoms/injuries after eye contact	: Dry skin.
Symptoms/injuries after ingestion	: Irritation of the eye tissue.
	: AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression, Headache, Dilation of the blood vessels, Low arterial pressure, Nausea, Vomiting, Abdominal pain, Disturbed motor response, Disturbances of consciousness, FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall, Slowing respiration.

### SECTION 12: Ecological information

<b>12.1. Toxicity</b>	
Ecology - general	: Classification concerning the environment: not applicable.
Ecology - air	: TA-Luft Klasse 5.2.5
Ecology - water	: Ground water pollutant. Not harmful to fishes (LC50 (96h) > 1000 mg/l). Not harmful to invertebrates (Daphnia) (EC50 (48h) > 1000 mg/l). Not harmful to algae (EC50 (72h) > 1000 mg/l). Inhibition of settled sludge.

<b>Defense-X</b>	
LC50 fishes 1	: 4200 mg/l (96 h; Rasbora heterompha; Flow-through system)
EC50 Daphnia 1	: > 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	: 9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	: 13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	: > 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	: 1800 mg/l (72 h; Algae; Cell numbers)

### 12.2. Persistence and degradability

<b>Defense-X</b>	
Persistence and degradability	: Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	: 1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	: 2.23 g O <sub>2</sub> /g substance
THOD	: 2.40 g O <sub>2</sub> /g substance
BOD (% of THOD)	: 0.49 % THOD

### 12.3. Bioaccumulative potential

<b>Defense-X</b>	
Log Pow	: 0.05 (Experimental value)
Bioaccumulative potential	: Low potential for bioaccumulation. (Log Pow < 4)

### 12.4. Mobility in soil

<b>Defense-X</b>	
Surface tension	: 0.021 N/m (25 °C)

### 12.5. Other adverse effects

No additional information available

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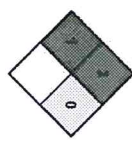
according to Federal Register / Vol. 77, No. 59 / 4/14/2002

### SECTION 16: Other Information

Full text of Hazhases: see section 16:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3.
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

- NEPA health hazard**
- : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
  - : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
  - : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



- HMS III Rating**
- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
  - Flammability : 3 Serious Hazard
  - Physical : 0 Minimal Hazard
  - Personal Protection : H

SDS US (GHS HazCom 2012)

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