

# Hand Sanitizer

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
 Revision Date: 05/15/2020 Date of Issue: 05/14/2020

Version: 1.2

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Hand Sanitizer

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Hygienic handrub. For hand antiseptis and for presurgical hand preparation. For use in resource-limited or remote areas with lack of accessibility to sinks or other facilities.

#### 1.3. Name, Address, and Telephone of the Responsible Party

28 Mile Vodka Company

454 Sheridan Road

Highwood, IL 60040

United States

847-748-8090

<http://28milevodka.com/>

#### 1.4. Emergency Telephone Number

**Emergency Number:** CHEMTREC : 1-800-424-9300 / 24 hours / customer # CCN699601

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

Flam. Liq. 2 H225

Eye Irrit. 2 H319

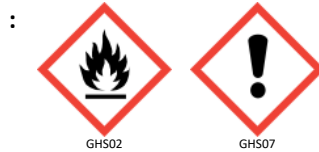
Skin Sens. 1 H317

Full text of hazard classes and 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, sparks, open flames and other ignition sources. No smoking.  
 P233 - Keep container tightly closed.  
 P240 - Ground/Bond container and receiving equipment.  
 P241 - Use explosion-proof electrical, ventilating, and lighting equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P261 - Avoid breathing vapors, mist, or spray.  
 P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
 P272 - Contaminated work clothing must not be allowed out of the workplace.  
 P280 - Wear protective gloves, protective clothing, and eye protection.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 - Specific treatment (see section 4 on this SDS).  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
 P403+P235 - Store in a well-ventilated place. Keep cool.  
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

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### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Ethyl alcohol	Methylcarbinol / Ethanol / ALCOHOL / Alcohol anhydrous / Alcohol / Grain alcohol	(CAS-No.) 64-17-5	70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Water	AQUA	(CAS-No.) 7732-18-5	28.8866	Not classified
Polyethylene glycol	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- / Polyethylene glycol 6000 / Polyethylene glycol ether / Polyethylene glycols / PEG-10 / Polyethylene glycol 400 / Polyethylene glycol 8000 / PEG / Macrogols / Ethylene oxide polymer / 1,2-Ethanediol, homopolymer / Macrogol / PEG-9 / PEG-14 / .alpha.-Hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) / Ethoxylated 1,2-ethanediol / Polyethylene glycol 35 / Polyethylene glycol 115 / .alpha.-Hydro-.omega.-hydroxypoly(oxyethylene) / Polyethylene glycol-6000 / Poly(ethylene glycol) 400 / Polyethylene oxide / Polyethylene glycol esters	(CAS-No.) 25322-68-3	1.875 - 2.375	STOT SE 3, H335
1,2,3-Propanetriol	Glycerin / Glycerine / Glycerol / 1,2,3-Trihydroxypropane / GLYCERIN / Propane-1,2,3-triol	(CAS-No.) 56-81-5	1.5	Not classified

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<p>1,3-Propanediamine, N,N''-1,2-ethanediybis-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine</p>	<p>1,3-Propanediamine, N1,N1'-1,2-ethanediybis-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine / 1,3-Propanediamine, N,N'-1,2-ethanediybis-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine / 1,2-Bis(3-aminopropyl)ethylenediamine, polymer with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine and 2,4,6-trichloro-1,3,5-triazine / 1,3-Propanediamine, N,N''-1,2-ethanediybis-, polymer with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine and 2,4,6-trichloro-1,3,5-triazine / N,N''-1,2-Ethanediybis-1,3-propanediamine, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine / N-Butyl-2,2,6,6-tetramethylpiperidin-4-amine, oligomeric reaction products with N,N'-bis(3-aminopropyl)ethylenediamine and 2,4,6-trichloro-1,3,5-triazine</p>	<p>(CAS-No.) 136504-96-6</p>	<p>0.125 - 0.625</p>	<p>Skin Sens. 1, H317 Aquatic Acute 2, H401</p>
<p>Benzyl benzoate</p>	<p>Benzoate, benzyl / Benzoic acid, benzyl ester / Benzoic acid, phenylmethyl ester / BENZYL BENZOATE</p>	<p>(CAS-No.) 120-51-4</p>	<p>0.05 - 0.1</p>	<p>Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411</p>
<p>Hydrogen peroxide</p>	<p>Hydrogen peroxide (H2O2) / HYDROGEN PEROXIDE / Hydrogen peroxide, aqueous solution / Dihydrogen dioxide / Hydrogen peroxide solution ...% / Aqueous solution of hydrogen peroxide / Hydrogen peroxide solution... %</p>	<p>(CAS-No.) 7722-84-1</p>	<p>0.0884</p>	<p>Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 1, H370 Aquatic Acute 3, H402 Aquatic Chronic 3, H412</p>

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D-Limonene	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- / Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- / (R)-p-Mentha-1,8-diene / p-Mentha-1,8-diene, (R)-(+)- / Cyclohexene, 1-methyl-4-(1-methylethenyl)-(R)- / Limonene, D- / Menthadiene, 1,8(9)-p- / d-Limonene / Limonene, d- / (4R)-1-Methyl-4-(1-methylethenyl)cyclohexene / (4R)-p-Mentha-1,8-diene / 1-Methyl-4-prop-1-en-2-yl-cyclohexene / (d)-Limonene / (R)-1-Methyl-4-(1-methylethenyl)cyclohexene / d-LIMONENE / (R)-1-Methyl-4-(1-methylethenyl)cyclohex-1-ene / (R)-4-Isopropenyl-1-methylcyclohex-1-ene / (R)-p-Mentha-1,8-diene; Dipentene; Limonene; d-Limonene / (R)-p-Mentha-1,8-diene, Dipentene, Limonene, d-Limonene / Limonene	(CAS-No.) 5989-27-5	0.0125 - 0.035	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
.alpha.-Pinene	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- / Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- / Pin-2(3)-ene / 2-Pinene / 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene / 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene / 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene / 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene / (+-)-.alpha.-Pinene	(CAS-No.) 80-56-8	0.005 - 0.02	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Oils, Siberian fir	Extractives and their physically modified derivatives. Abies siberica, Pinaceae. / Fir needle oil, siberian / Fir needle oil / Abies siberica needle oil / Fir needle oil (Abies siberica) / Pine needle oil / Fir ("pine") needles and twigs (Abies siberica ledeb.) / Fir ("pine") needles and twigs / Pine, Pinus mugo, extract	(CAS-No.) 8021-29-2	0.0025 - 0.01	Flam. Liq. 3, H226 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Citral	3,7-Dimethyl-2,6-octadienal / 2,6-Octadienal, 3,7-dimethyl- / CITRAL / 3,7-Dimethylocta-2,6-dien-8-al	(CAS-No.) 5392-40-5	0.0025 - 0.01	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 2, H401
Geraniol	Geraniol alcohol / Geranyl alcohol / Guaniol / Lemonol / 2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)- / 2,6-Octadien-1-ol, 3,7-dimethyl-, (E)- / 2,6-Octadien-1-ol, 3,7-dimethyl-, trans- / GERANIOL / (2E)-3,7-Dimethyl-2,6-octadienol / (2E)-3,7-Dimethylocta-2,6-dien-1-ol / 3,7-Dimethyl-2,6-octadien-1-ol, (E)-	(CAS-No.) 106-24-1	0.0025 - 0.01	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

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Oils, lemon	Lemon oil / Oil of lemon / Lemon oil cold pressed / CITRUS MEDICA LIMONUM OIL / Citrus limon (lemon) seed oil / Lemon oil, distilled / CITRUS LIMON (LEMON) PEEL OIL / Citrus limon (lemon) peel oil / Lemon essence oil (Citrus limon (L) Burm. f.) / Lemon oil cold expressed / Lemon, extract	(CAS-No.) 8008-56-8	0.0025 - 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Octanal, 2-(phenylmethylene)-	Cinnamaldehyde, .alpha.-hexyl- / 2-Hexylcinnamaldehyde / .alpha.-Hexylcinnamaldehyde / 2-Benzylideneoctanal / HEXYL CINNAMAL / Hexyl cinnamal / .alpha.-Hexylcinnamic aldehyde / 2-(Phenylmethylene)octanal	(CAS-No.) 101-86-0	0.002 - 0.005	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Oils, juniper	Juniper berry oil / Juniper oil / Juniperberry oil / Juniper oil (Juniperus communis L.) / JUNIPERUS COMMUNIS FRUIT OIL / Juniper, Juniperus communis, extract	(CAS-No.) 8002-68-4	0.0011 - 0.0035	Flam. Liq. 3, H226 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one	1-(1,2,3,5,6,7,8,8a-Octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one / Decalene, 2-aceto-2,3,8,8-tetramethyl(1,2,3,5,6,7,8,8a-octahydro)- / 1-(1,2,3,5,6,7,8,8a-Octahydro-2,3,8-tetramethyl-2-naphthalenyl)ethanone	(CAS-No.) 68155-66-8	0.001 - 0.0025	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Oils, coriander	Coriander oil / CORIANDRUM SATIVUM OIL / Coriander oil (Coriandrum sativum L.) / CORIANDRUM SATIVUM (CORIANDER) FRUIT OIL	(CAS-No.) 8008-52-4	0.001 - 0.0025	Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Oils, orange, sweet	Orange oil / Oil of orange / Oils, orange / Oils, orange, sweet (Extractives and their physically modified derivatives. Citrus aurantium, dulces, Citrus.) / Orange flower oil / Orange flower water absolute / Orange flower, absolute / Orange oil, sweet / CITRUS AURANTIUM DULCIS OIL / Orange peel sweet oil / Oil of Orange / Citrus aurantium dulcis (orange) seed oil / Orange oil terpeneless / Citrus aurantium dulcis oil / Sweet orange oil / Citrus aurantium dulcis (Orange) peel oil / CITRUS AURANTIUM DULCIS (ORANGE) PEEL OIL / Citrus aurantium dulcis (orange) peel oil / Citrus aurantium dulcis (orange) oil / Orange oil terpeneless (Citrus Sinensis (L.) Osbeck)	(CAS-No.) 8008-57-9	0.001 - 0.0025	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Oils, petitgrain	Orange leaf oil, bitter / Orange leaf water, absolute / Petitgrain oil / Petitgrain oil saponified / Citrus reticulata (leaf oil) / Essential oils, sour orange / Petitgrain paraguay oil / Petitgrain bigarade oil / Orange leaf water absolute / Petitgrain mandarin oil / Orange, sour, extract	(CAS-No.) 8014-17-3	0.001 - 0.0025	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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Oils, citronella	Citronella oil / Oil of citronella / Oils, citronella java / CYMBOPOGON NARDUS OIL / CYMBOPOGON NARDUS (CITRONELLA) OIL	(CAS-No.) 8000-29-1	0.001 - 0.0025	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Citronellol	2,6-Dimethyl-2-octen-8-ol / 3,7-Dimethyl-6-octen-1-ol / 6-Octen-1-ol, 3,7-dimethyl- / dl-Citronellol / DL-Citronellol / CITRONELLOL / 3,7-Dimethyl-6-octenol / .beta.-Citronellol	(CAS-No.) 106-22-9	0.001 - 0.0025	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Oils, geranium	Geranium oil algerian / Rose geranium oil algerian / Geranium oil / Geranium oil generic / GERANIUM MACULATUM OIL / Geranium absolute (Pelargonium graveolens) / Geranium absolute / Geranium, oil (Pelargonium species) / Geranium maculatum oil / Geranium concrete / Geranium oil, African	(CAS-No.) 8000-46-2	0.001 - 0.0025	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Oils, eucalyptus	Eucalyptus oil / Eucalyptus oil citriodora / Eucalyptus, oil (Eucalyptus Globulus Labille) / Red gum / Eucalyptus globulus leaves / Eucalyptus Globulus Oil / Oil, eucalyptus / Eucalyptus globulus leaves (Eucalyptus globulus Labill) / Eucalyptus citrodora oil / EUCALYPTUS GLOBULUS OIL / Eucalyptus, oil (eucalyptus globulus labille) / Eucalyptus oil (Eucalyptus globulus Labille) / EUCALYPTUS CITRIODORA LEAF EXTRACT / Eucalyptus globus leaf oil / Eucalyptus globulus, extract	(CAS-No.) 8000-48-4	0.0001 - 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Oils, mandarin	Mandarin oil / Mandarin white oil / Mandarin, oil (Citrus Reticulata Blanco) / Citrus Nobilis Oil / CITRUS NOBILIS OIL / Mandarin, oil (citrus reticulata blanco) / Mandarin oil, expressed / Citrus reticulata peel extract / CITRUS RETICULATA (TANGERINE) PEEL POWDER / Sunflower oil / Citrus reticulata (tangerine) peel oil / Citrus reticulata (tangerine) peel extract / Citrus reticulata (tangerine) leaf oil / Mandarin orange, extract	(CAS-No.) 8008-31-9	0.0001 - 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Oils, lime	Lime oil / Lime oil, distilled / Oil of lime / CITRUS AURANTIFOLIA OIL / Lime, distilled / Lime oil distilled / Oils, lime (Extractives and their physically modified derivatives. Citrus aurantifolia, Citrus.) / Citrus aurantifolia (lime) seed oil / Lime oil expressed rectified / CITRUS AURANTIFOLIA (LIME) OIL / Lime oil expressed / Lime (Citrus aurantifolia), extract	(CAS-No.) 8008-26-2	0.0001 - 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Camphor oil	Camphor oil (light) / Camphor Oil White / Camphor oil whitr / Camphor Oil Yellow / Camphor, Japanese, white, oil (Cinnamomum Camphora (L.) Nees et Eberm.) / Extractives and their physically modified derivatives. Cinnamomum camphora Lauraceae. / Formose oil of camphor / Japanese, oil of camphor / Light oil of camphor / Liquid camphor / Oil of camphor / Oil of Camphor White / Oils, camphor / White camphor oil / White oil of camphor / Camphor tree (Cinnamomum Camphora (L.) Nees et Eberm.) / Camphor Japanese White Oil / Camphor, white / Camphor oil, chinese / Camphor tree / Camphor Japanese white oil / Camphor oil, white / Camphor, Japanese, white, oil (Cinnamomum camphora (L.) Nees et Eberm.) / Camphor oil, yellow / Camphor, Japanese, white, oil / Camphor tree, extract	(CAS-No.) 8008-51-3	0.0001 - 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans-	Cyclohexanone, 5-methyl-2-(1-methylethyl)-, (2R,5S)-rel- / p-Menthan-3-one, trans- / p-Menthone / Menthone / trans-Menthone / trans-p-Menthan-3-one / (2R,5S)-rel-5-Methyl-2-(1-methylethyl)cyclohexanone / (+.-)-Menthone	(CAS-No.) 89-80-5	0.0001 - 0.001	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412
Linalool	3,7-Dimethyl-1,6-octadien-3-ol / Linalyl alcohol / Octa-1,6-dien-3-ol, 3,7-dimethyl- / 1,6-Octadien-3-ol, 3,7-dimethyl- / Linalool (synthetic) / LINALOOL / 3,7-Dimethylocta-1,6-dien-3-ol	(CAS-No.) 78-70-6	0.0001 - 0.001	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 3, H402

Full text of H-phrases: see Section 16.

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## 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:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Immediately drench affected area with water for at least 15 minutes. Immediately remove contaminated clothing. Obtain medical attention if irritation/rash develops or persists.

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**First-aid Measures After Eye Contact:** Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Skin sensitization. Causes serious eye irritation.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Repeated exposure may cause skin dryness or cracking.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Highly flammable liquid and vapor.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Smoke. Irritating fumes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate ignition sources.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools.



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**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

**Incompatible Materials:** Strong mineral acids. Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Hygienic handrub. For hand antiseptics and for presurgical hand preparation. For use in resource-limited or remote areas with lack of accessibility to sinks or other facilities.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Ethyl alcohol (64-17-5)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Polyethylene glycol (25322-68-3)		
USA AIHA	WEEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (molecular weight>200-aerosol)
1,2,3-Propanetriol (56-81-5)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (mist, total particulate) 5 mg/m <sup>3</sup> (mist, respirable fraction)
D-Limonene (5989-27-5)		
USA AIHA	WEEL TWA (ppm)	30 ppm
.alpha.-Pinene (80-56-8)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm (Turpentine and selected monoterpenes)
USA ACGIH	ACGIH chemical category	dermal sensitizer, Not Classifiable as a Human Carcinogen
Hydrogen peroxide (7722-84-1)		
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1.4 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	1 ppm
USA IDLH	US IDLH (ppm)	75 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1.4 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
Citral (5392-40-5)		
USA ACGIH	ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

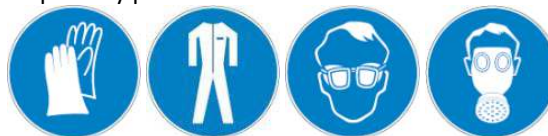
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### Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



### Materials for Protective Clothing

: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

### Hand Protection

: Wear protective gloves.

### Eye and Face Protection

: Chemical safety goggles.

### Skin and Body Protection

: Wear suitable protective clothing.

### Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	No data available :
Odor	No data available :
Odor Threshold	No data available :
pH	No data available :
Evaporation Rate	No data available :
Melting Point	No data available :
Freezing Point	No data available :
Boiling Point	No data available :
Flash Point	63 Degrees F :
Auto-ignition Temperature	No data available :
Decomposition Temperature	No data available :
Flammability (solid, gas)	Not applicable :
Vapor Pressure	No data available :
Relative Vapor Density at 20°C	No data available :
Relative Density	No data available :
Solubility	No data available :
Partition Coefficient: N-Octanol/Water	No data available :
Viscosity	No data available

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.
- 10.2. Chemical Stability:** Extremely flammable liquid and vapor. May form flammable or explosive vapor-air mixture.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. Incompatible Materials:** Strong mineral acids. Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Not expected to decompose under ambient conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**Ethyl alcohol (64-17-5)**

**LD50 Oral Rat**

10470 mg/kg

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LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h
<b>Polyethylene glycol (25322-68-3)</b>	
LD50 Oral Rat	22 g/kg
LD50 Dermal Rabbit	> 20 g/kg
<b>1,2,3-Propanetriol (56-81-5)</b>	
LD50 Oral Rat	12600 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
LC50 Inhalation Rat	> 570 mg/m <sup>3</sup> (Exposure time: 1 h)
<b>Benzyl benzoate (120-51-4)</b>	
LD50 Oral Rat	500 mg/kg
LD50 Dermal Rabbit	4000 mg/kg
<b>D-Limonene (5989-27-5)</b>	
LD50 Oral Rat	4400 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
<b>.alpha.-Pinene (80-56-8)</b>	
LD50 Oral Rat	> 500 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Hydrogen peroxide (7722-84-1)</b>	
LD50 Oral Rat	1193 mg/kg (Species: Sprague-Dawley; Exposure time: 4 h)
LD50 Dermal Rat	4060 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
ATE (Dust/Mist)	1.50 mg/l/4h
<b>Oils, lemon (8008-56-8)</b>	
LD50 Oral Rat	2840 mg/kg
<b>Citral (5392-40-5)</b>	
LD50 Oral Rat	4960 mg/kg
LD50 Dermal Rabbit	2250 mg/kg
<b>Geraniol (106-24-1)</b>	
LD50 Oral Rat	3600 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
<b>Oils, Siberian fir (8021-29-2)</b>	
LD50 Oral Rat	10200 mg/kg
<b>Octanal, 2-(phenylmethylene)- (101-86-0)</b>	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	> 3000 mg/kg
LC50 Inhalation Rat	> 5 mg/l/4h
<b>Oils, juniper (8002-68-4)</b>	
LD50 Oral Rat	6280 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
<b>Oils, petitgrain (8014-17-3)</b>	
LD50 Oral Rat	> 5 g/kg
<b>Oils, geranium (8000-46-2)</b>	
LD50 Dermal Rabbit	2500 mg/kg (Source: RTECS)
<b>Oils, citronella (8000-29-1)</b>	
LD50 Oral Rat	7200 mg/kg
<b>Citronellol (106-22-9)</b>	
LD50 Oral Rat	3450 mg/kg
LD50 Dermal Rabbit	2650 mg/kg
<b>Oils, coriander (8008-52-4)</b>	
LD50 Oral Rat	4130 mg/kg
<b>Oils, orange, sweet (8008-57-9)</b>	

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LD50 Oral Rat	4400 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
<b>Linalool (78-70-6)</b>	
LD50 Oral Rat	2790 mg/kg
<b>Camphor oil (8008-51-3)</b>	
LD50 Oral Rat	3730 mg/kg
<b>Cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans- (89-80-5)</b>	
LD50 Oral Rat	500 mg/kg
<b>Oils, lime (8008-26-2)</b>	
LD50 Oral Rat	> 5 g/kg
<b>Oils, mandarin (8008-31-9)</b>	
LD50 Oral Rat	> 5 g/kg
<b>Oils, eucalyptus (8000-48-4)</b>	
LD50 Oral Rat	2480 mg/kg

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

<b>Ethyl alcohol (64-17-5)</b>	
IARC group	1
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
<b>D-Limonene (5989-27-5)</b>	
IARC group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
<b>Hydrogen peroxide (7722-84-1)</b>	
IARC group	3

**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/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Repeated exposure may cause skin dryness or cracking.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Not classified.

<b>Ethyl alcohol (64-17-5)</b>	
LC50 Fish 1	11200 mg/l
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (Algae)	1000 mg/l
NOEC Chronic Crustacea	9.6 mg/l
<b>1,2,3-Propanetriol (56-81-5)</b>	
LC50 Fish 1	54000 (51000 - 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>1,3-Propanediamine, N,N''-1,2-ethanediybis-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine (136504-96-6)</b>	
LC50 Fish 1	119 mg/l
EC50 Daphnia 1	7.3 mg/l
<b>Benzyl benzoate (120-51-4)</b>	

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LC50 Fish 1	0.29 mg/l
EC50 Daphnia 1	4.8 mg/l
NOEC Chronic Fish	0.168 mg/l QSAR (Reliability: 2)
<b>D-Limonene (5989-27-5)</b>	
LC50 Fish 1	0.619 (0.619 - 0.796) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.421 mg/l
LC50 Fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
<b>.alpha.-Pinene (80-56-8)</b>	
LC50 Fish 1	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Hydrogen peroxide (7722-84-1)</b>	
LC50 Fish 1	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Citral (5392-40-5)</b>	
LC50 Fish 1	4.1 mg/l
EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Geraniol (106-24-1)</b>	
LC50 Fish 1	2.6 mg/l
ErC50 (Algae)	13.9 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [static])
NOEC Chronic Algae	1 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus [static])
<b>Citronellol (106-22-9)</b>	
EC50 Daphnia 1	17.48 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
ErC50 (Algae)	2.38 mg/l (Exposure time: 72 h - Species: Selenastrum subspicatus)
<b>Linalool (78-70-6)</b>	
LC50 Fish 1	27.8 mg/l
EC50 Daphnia 1	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Algae	5.6 mg/l

### 12.2. Persistence and Degradability

<b>Hand Sanitizer</b>	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

<b>Hand Sanitizer</b>	
Bioaccumulative Potential	Not established.
<b>Ethyl alcohol (64-17-5)</b>	
Log Pow	-0.32
<b>1,2,3-Propanetriol (56-81-5)</b>	
BCF Fish 1	(no bioaccumulation)
Log Pow	-1.76
<b>Benzyl benzoate (120-51-4)</b>	
Log Pow	3.97
<b>.alpha.-Pinene (80-56-8)</b>	
Log Pow	4.1
<b>Hydrogen peroxide (7722-84-1)</b>	
BCF Fish 1	(no bioaccumulation)
<b>Citral (5392-40-5)</b>	
Log Pow	2.76 (at 25 °C)
<b>Linalool (78-70-6)</b>	
Log Pow	2.84 - 3.1 (at 25 °C)

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**12.4. Mobility in Soil** No additional information available

**12.5. Other Adverse Effects**

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste Treatment Methods**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

**14.1. In Accordance with DOT**

**Proper Shipping Name** : ETHYL ALCOHOL SOLUTIONS

**Hazard Class** : 3

**Identification Number** : UN1170

**Label Codes** : 3

**Packing Group** : II

**ERG Number** : 127



**14.2. In Accordance with IMDG**

**Proper Shipping Name** : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

**Hazard Class** : 3

**Identification Number** : UN1170

**Packing Group** : II

**Label Codes** : 3

**EmS-No. (Fire)** : F-E

**EmS-No. (Spillage)** : S-D



**14.3. In Accordance with IATA**

**Proper Shipping Name** : ETHYL ALCOHOL SOLUTION

**Packing Group** : II

**Identification Number** : UN1170

**Hazard Class** : 3

**Label Codes** : 3

**ERG Code (IATA)** : 3L



## SECTION 15: REGULATORY INFORMATION

**15.1. US Federal Regulations**

<b>Hand Sanitizer</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Respiratory or skin sensitization Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation
<b>Ethyl alcohol (64-17-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Polyethylene glycol (25322-68-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>1,2,3-Propanetriol (56-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>1,3-Propanediamine, N,N''-1,2-ethanediybis-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine (136504-96-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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<b>EPA TSCA Regulatory Flag</b>	PMN - PMN - indicates a commenced PMN substance. S - S - indicates a substance that is identified in a final Significant New Use Rule. 5E - 5E - indicates a substance that is the subject of a TSCA section 5E order.
<b>Benzyl benzoate (120-51-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>D-Limonene (5989-27-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>.alpha.-Pinene (80-56-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Hydrogen peroxide (7722-84-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302	
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	1000 lb (concentration >52%)
<b>Oils, lemon (8008-56-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Citral (5392-40-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Geraniol (106-24-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, Siberian fir (8021-29-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Octanal, 2-(phenylmethylene)- (101-86-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, juniper (8002-68-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, petitgrain (8014-17-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, geranium (8000-46-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, citronella (8000-29-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Citronellol (106-22-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, coriander (8008-52-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, orange, sweet (8008-57-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- (68155-66-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Linalool (78-70-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Camphor oil (8008-51-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans- (89-80-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, lime (8008-26-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, mandarin (8008-31-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oils, eucalyptus (8000-48-4)</b>	

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

### 15.2. US State Regulations

#### Ethyl alcohol (64-17-5)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### 1,2,3-Propanetriol (56-81-5)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### .alpha.-Pinene (80-56-8)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### Hydrogen peroxide (7722-84-1)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### Camphor oil (8008-51-3)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### California Proposition 65



**WARNING:** This product can expose you to Ethyl alcohol, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Ethyl alcohol (64-17-5)	X	X		

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 05/15/2020  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

#### GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 2	Germ cell mutagenicity Category 2



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Ox. Liq. 1	Oxidizing liquids Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H271	May cause fire or explosion; strong oxidizer
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H370	Causes damage to organs
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)