



**SAFETY DATA SHEET**  
**Regulation (EC) No 1907/2006 (REACH)**

(Revision: 1/6/2016)

**Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.**

**1.1 Product Identifier**

**Product Type:** Hand Sanitizer  
**Trade Names:** Preference Hand Sanitizer

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

**Product Use:** Hand Sanitizer  
**Uses Advised Against:** Use only as directed

**1.3 Details of the Supplier of the Substance or Mixture**

<b>Manufacturer:</b>	<b>EU Importer:</b>
Whip Mix Corporation	Whip Mix Europe GmbH
361 Farmington Avenue	Wißstrasse 26 – 28
Louisville, Kentucky, USA 40209	D – 44137 Dortmund
Emergency Telephone Number: (502) 634-1451	Germany
Fax Number: (502) 634-4512	+49 (0) 231 / 567 70 8-0

**1.4 Emergency Telephone Number**

**Transportation Emergencies:** *For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night:  
Within USA and Canada: 1-800-424-9300 CCN216797  
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)*

**Other Product Information:** [www.whipmix.com](http://www.whipmix.com)

**Section 2 Hazard Identification**

**2.1 Classification of the Substance or Mixture:**

**CLP/GHS Classification (1272/2008):**

Health Hazards	Physical Hazards	Environmental Hazards
Eye Irritation Category 2 (H319)	Flammable Liquid Category 3 (H226)	Not Hazardous

**2.2 Label Elements**

Danger!



H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.

**Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing mist, vapors or spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection if needed to avoid contact.

**Response**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P370 + P378 In case of fire: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish.

**Storage and Disposal**

P403 + P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

**2.3 Other Hazards:** None**Section 3 Composition/Information on Ingredients.**

<b><i>Substance</i></b>	<b><i>CAS No. / EC Number</i></b>	<b><i>%</i></b>	<b><i>CLP/GHS Classification (1272/2008)</i></b>
Ethanol	64-17-5 / 200-578-6	70-90%	Flam. Liquid 2 H225 Eye Irrit. 2 H319
Isopropanol	67-63-0 / 200-661-7	1-10%	Flam. Liq 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
Sodium Lactate	72-17-3 / 200-772-0	1-5%	Eye Irrit. 2 H319

See Section 16 for full text of GHS and EU Classifications.

**Section 4 First-Aid Measures.****4.1 Description of First Aid Measures**

**Inhalation:** Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention.

**Eyes:** Flush with large quantities of water for several minutes, holding the eyelids apart. If irritation persists consult a physician.

**Skin:** This product is intended for the skin. If irritation occurs, discontinue use and get medical attention.

**Ingestion:** If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed by medical personnel. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes eye irritation. Prolonged skin contact may cause irritation and drying of the skin. Inhalation may cause headache, dizziness, drowsiness, nausea, narcosis, and unconsciousness. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is not required.

**Section 5 Fire-Fighting Measures.**

**5.1 Extinguishing Media:** Use water fog, alcohol foam, carbon dioxide or dry chemical.

**5.2 Special Hazards Arising from the Substance or Mixture:** This product is flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Combustion may produce carbon oxides.

**5.3 Advice for Fire-Fighters:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

**Section 6 Accidental Release Measures.**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** If large amount are spilled, wear appropriate eye protection.

**6.2 Environmental Precautions:** Avoid release into the environment. Report releases as required by local and national authorities.

**6.3 Methods and Material for Containment and Cleaning Up:** For large spill, eliminate all sources of ignition and ventilate the area. Collect using an inert non-combustible absorbent material and place in appropriate container.

**6.4 Reference to Other Sections:** Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

### Section 7 Handling and Storage.

**7.1 Precautions for Safe Handling** Avoid contact with the eyes and prolonged contact with skin and clothing. Avoid breathing vapors.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** Flammable liquid! Keep container away from excessive heat, sparks and open flames. Keep containers closed when not in use. Store in a cool, dry, well ventilated area away from ignition sources. Protect from physical damage.

### 7.3 Specific end use(s):

**Industrial uses:** None identified

**Professional uses:** Hand Sanitizer

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control Parameters:

Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV 1000 ppm TWA Belgium OEL 1000 ppm TWA, 5000 ppm STEL France OEL 500 ppm TWA, 1000 ppm STEL German MAK 260 mg/m <sup>3</sup> TWA, 1900 mg/m <sup>3</sup> STEL Netherlands OEL 1000 ppm STEL Ireland OEL 1000 ppm STEL Spain OEL 500 ppm TWA, 1000 ppm STEL Sweden OEL 1000 ppm TWA UK WEL
Isopropanol	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV 200 ppm TWA, 400 ppm STEL Belgium OEL 400 ppm STEL France OEL 200 ppm TWA, 400 ppm STEL German MAK 200 ppm TWA, 400 STEL Ireland OEL 200 ppm TWA, 400 STEL Spain OEL 150 ppm TWA, 250 ppm STEL Sweden OEL 400 ppm TWA, 500 ppm STEL UK WEL
Sodium Lactate	None Established

### 8.2 Exposure Controls:

**Recommended Monitoring Procedures:** None.

**Appropriate engineering controls:** General room ventilation will be adequate for normal use.

#### **Personal Protective Measurers**

**Respiratory protection:** None required with adequate ventilation.

**Skin protection:** None required.

**Eye protection:** Avoid eye contact.

**Other:** None known

## Section 9 Physical and Chemical Properties.

### 9.1 Information on basic Physical and Chemical Properties

**Appearance:** Clear liquid

**Odor:** Alcohol odor.

**Odor threshold:** 0.136 ppm (ethanol)  
**Melting point/freezing point:** Not available  
**Flash point:** 74°F (23°C)  
**Flammability (solid, gas):** Not applicable  
**Flammable limits: LEL:** 2.0% (isopropanol)  
**Vapor pressure:** 59.3 mmHg @ 25°C (ethanol)  
**Relative density:** Not available

**Partition coefficient: n-octanol/water:** Not available  
**Decomposition temperature:** Not available  
**Explosive Properties:** Not applicable

**pH:** Not available  
**Boiling point:** >172.9°F (>78.3°C)  
**Evaporation rate:** (butyl alcohol =1) Not available

**UEL:** 19% (ethanol)  
**Vapor density (air = 1):** 2.1 (isopropanol)  
**Solubility In Water:** Negligible  
**Auto-ignition temperature:** 750°F (399°C) (isopropanol)  
**Viscosity:** Not applicable  
**Oxidizing Properties:** Not applicable

**9.2 Other Information:** None available

## Section 10 Stability and Reactivity.

- 10.1 Reactivity:** None known.  
**10.2 Chemical stability:** Stable  
**10.3 Possibility of hazardous reactions:** None known.  
**10.4 Conditions to avoid:** Keep away from heat and all sources of ignition.  
**10.5 Incompatible materials:** Avoid strong oxidizing agents.  
**10.6 Hazardous decomposition products:** Thermal decomposition may produce carbon oxides.

## Section 11 Toxicological Information.

### 11.1 Information on Toxicological Effects:

#### Potential Health Effects:

**Eyes:** May cause irritation with redness, tearing and stinging.

**Skin:** Prolonged contact may cause irritation and drying of the skin.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea and other symptoms listed under inhalation.

**Inhalation:** Inhalation of vapors may cause respiratory tract irritation and central nervous system effects including headache, dizziness, drowsiness, narcosis and unconsciousness.

**Chronic Health Effects:** None known.

**Mutagenicity:** None of the components have been shown to cause mutagenic activity.

**Reproductive Toxicity:** None of the components have been shown to reproductive or developmental toxicity.

**Carcinogenicity:** one of the components of this product are listed as carcinogens by OSHA, IARC, ACGIH, NTP or EU Directives.

#### Acute Toxicity Data:

Acute Toxicity Estimate: Oral : >5000 mg/kg, Inhalation >29.29 mg/L/4 hr, Dermal >2000 mg/kg

Ethanol: Oral rat LD50 10470 mg/kg, Inhalation rat LC50 117 mg/L

Isopropanol: Oral rat LD50 5840 mg/kg; Inhalation rat LC50 24.6 mg/L/4 hr, Dermal rabbit LD50 12874 mg/kg

Sodium Lactate: Oral rat LD50 3543 mg/kg, Inhalation rat LC50 >7.94 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/L

## Section 12. Ecological Data.

### 12.1 Ecotoxicity:

Ethanol: 96 hr LC50 14.2 mg/L, 48 hr LC50 Ceriodaphnia dubia 5012 mg/L, 72 hr EC50 Chlorella vulgaris 275 mg/L

Isopropanol: 96 hr LC50 Pimephales promelas 10,000 mg/L, 24 hr LD50 daphnia magna >10,000 mg/L

Sodium Lactate: 96 hr LC50 Oncorhynchus mykiss 130 mg/L, 48 hr EC50 Daphnia magna 250 mg/L, 72 hr EC50 >2800 mg/L

**12.2 Persistence and degradability:** Isopropanol, sodium lactate and ethanol are readily biodegradable.

**12.3 Bioaccumulative potential:** Ethanol and isopropanol have a BCF of 3. This suggests the potential for bioconcentration in aquatic organisms is low.

**12.4 Mobility in soil:** Isopropanol and ethanol are highly mobile in soil.

**12.5 Results of PBT and vPvB assessment:** Not required.

**12.6 Other adverse effects:** Not required.

### Section 13. Disposal Considerations.

**13.1 Waste Treatment Methods:** Dispose in accordance with all national and local regulations.

### Section 14. Transport Information.

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
<b>US DOT &lt;5 L or 1.3 gallons</b>		Limited Quantity			No
<b>US DOT &gt;5 L or 1.3 gallons</b>	UN1987	Alcohols, n.o.s. (Ethanol, Isopropanol)	3	PG III	No
<b>Canadian TDG &lt;5 L or 1.3 gallons</b>		Limited Quantity			
<b>Canadian TDG &gt;5 L or 1.3 gallons</b>	UN1987	Alcohols, n.o.s. (Ethanol, Isopropanol)	3	PG III	No
<b>EU ADR/RID</b>	UN1987	Alcohols, n.o.s. (Ethanol, Isopropanol)	3	PG III	No
<b>IMDG</b>	UN1987	Alcohols, n.o.s. (Ethanol, Isopropanol)	3	PG III	No
<b>IATA/ICAO</b>	UN1987	Alcohols, n.o.s. (Ethanol, Isopropanol)	3	PG III	No

**14.6 Special precautions for User:** Not applicable

**14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

### Section 15 Regulatory Information.

#### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

##### US Regulations

**SARA Section 313 (40 CFR 372):** This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313: None

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** Acute Health, Fire hazard

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA inventory

**Canadian Environmental Protection Act:** All of the components of this product are listed on the Domestic Substances List (DSL).

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: None

16. Other Information.

HMIS Rating: Health 2 Flammability 3 Reactivity 0  
*Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum*

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Flam Liq 2 Flammable Liquid Category 2

Eye Irrit 2 Eye Irritation Category 2

STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

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