



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team
Zep Inc.



Empack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571

PRODUCT: Zytec Clear Gel Hand Sanitizer 70% - 3.78 L

CODE: P1-001219

SECTION 01: IDENTIFICATION

Product Identity..... Zytec Clear Gel Hand Sanitizer 70% - 3.78 L
Product Item Numbers..... P1-001219
Manufacturer..... Empack Spraytech Inc.
98 Walker Drive
Brampton
Ontario
Canada
L6T 4H6
905-792-6571
24 hour emergency telephone number..... In Canada: Call CANUTEC (613) 996-6666 - In The United States: Call CHEMTREC (800) 424-9300.
Recommended Use..... Hand sanitizer.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:
Signal Word..... WARNING.
Hazard Classification:
Physical Hazards..... Flammable Liquids - Category 3.
Health Hazards..... Eye Irritation - Category 2B. Specific Target Organ Toxicity, Single Exposure - Category 3.
Environmental Hazards..... Not Classified.
Hazard Statement..... H226:Flammable liquid and vapour. H320:Causes eye irritation. H335:May cause respiratory irritation.
Precautionary Statements:
Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233:Keep container tightly closed. P240:Ground and bond container and receiving equipment. P242:Use non-sparking tools. P243:Take action to prevent static discharges. P241:Use explosion-proof electrical/ventilating/lighting. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P271:Use only outdoors or in a well-ventilated area.
Response..... P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P370+P378:In case of fire: Use CO2, dry chemicals or foam to extinguish. 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. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312:Call a POISON CENTER if you feel unwell.
Storage..... P403+P235:Store in a well ventilated place. Keep cool. P233:Keep container tightly closed. P405: Store locked up.
Disposal..... P501:Dispose of contents/container in accordance with local, regional, national, and/or international regulations.
Hazard(s) not otherwise classified (HNOC) For external use only. Not expected to cause skin irritation. Discontinue use if rash, redness or itching occurs. KEEP OUT OF REACH OF CHILDREN.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Ethyl alcohol	64-17-5	60-80
Fragrance	Mix	0.1-1

SECTION 04: FIRST-AID MEASURES

Skin Contact..... The product is not expected to be skin irritant. However, if irritation persists, wash the contact skin area with soap and water.
Eye Contact..... Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

PRODUCT: Zytac Clear Gel Hand Sanitizer 70% - 3.78 L**CODE: P1-001219****SECTION 04: FIRST-AID MEASURES**

Ingestion.....	Ingestion is not a likely route of exposure. Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY. Obtain medical advice.
Inhalation.....	No specific effects have been reported. Supply fresh air if any irritations persists.
Most important symptoms/effects, acute .. and delayed	Direct eye contact may cause temporary eye irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 05: FIRE-FIGHTING MEASURES

General Fire Hazards.....	Use as directed. Flammable.
Suitable Extinguishing Media.....	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media.....	None in particular.
Specific Hazards Arising from the Chemical	None known.
Special Protective Equipment and	Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from immediate hazard area if it is safe to do.
Precautions for Firefighters	

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
Equipment and Emergency Procedures	
Methods and Materials for Containment .. and Cleaning Up	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Environmental Precautions.....	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling.....	Avoid contact with eyes. Avoid breathing vapours or spray mists of this product. Use with adequate ventilation. Keep away from heat, sparks, and open flames.
Conditions for Safe Storage including any Incompatibilities	Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Ethyl alcohol	1000 ppm	1000 ppm	1000 ppm	Not available	1000 ppm	
Fragrance	Not established	Not established	Not established	Not established	Not established	
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.					
Individual Protection Measures:						
Eye/Face Protection.....	Prevent eye contact, wear safety glasses in the event that eye contact is possible.					
Skin Protection.....	Not normally required.					
Respiratory Protection.....	Not required on a short-term basis or if exhaust ventilation is provided. Use approved NIOSH respirators for emergencies.					
Thermal Hazards.....	None Known.					
General Hygiene Considerations.....	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment prior to use.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State.....	Liquid.
Physical Appearance.....	Clear/Transparent .
Odour.....	Mild alcohol .
Odour Threshold (ppm).....	Not available.
pH.....	6.0 - 7.5.

PRODUCT: Zytec Clear Gel Hand Sanitizer 70% - 3.78 L**CODE: P1-001219****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Aerosol Vapour Pressure (psig, 21°C)..... Not applicable.
 Vapour Pressure (psig)..... Not available.
 Evaporation Rate (n-Butyl Acetate = 1)..... Not available.
 Boiling Point (°C)..... 78.3. (Ethanol).
 Melting/Freezing Point (°C)..... -115. Approximately. (Ethanol).
 VOC Content..... No data.
 Relative Density/Specific Gravity..... No data.
 Solubility in water..... Soluble in water.
 Auto Ignition Temperature (liquid), °C..... 370. Approximately. (Ethanol).
 Flash Point (°C), Method..... Not available.
 Lower Explosive Limit (% vol)..... 3.3. (Ethanol).
 Upper Explosive Limit (% vol)..... 19.0. (Ethanol).
 Viscosity..... 1.35 cp @ 20°C. Approximately. (Ethanol).

SECTION 10: STABILITY AND REACTIVITY

Reactivity Product not reactive under normal conditions of use.
 Chemical Stability..... Stable at normal temperatures and pressures.
 Possibility of Hazardous Reactions..... Will not occur.
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge.
 Incompatible Materials..... Avoid contacting with oxidizers.
 Hazardous Decomposition Products..... Normal products of combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Ethyl alcohol	31,623 ppm (Rat - 4 hrs)	7,060 mg/kg (Oral - Rat); 20,000 mg/kg (Dermal - Rabbit)
Fragrance	No data	No data
Information on Likely Routes of Exposure: Routes of entry - Inhalation..... Yes. Routes of entry - Skin & Eye..... Yes. Routes of entry - Ingestion..... No. Routes of entry - Skin Absorption..... Yes. Symptoms Related to the Physical, Irritant effects. Chemical and Toxicological Characteristics Acute Toxicity..... No known significant effects. Skin Corrosion/Irritation..... Based on available data, the classification criteria are not met. Serious Eye Damage/Eye Irritation..... Direct contact with eyes causes temporary irritation. Respiratory or Skin Sensitization..... Not expected to be a skin or respiratory sensitizers. Germ Cell Mutagenicity..... No information is available, and no adverse effects are expected. Carcinogenicity..... Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP. Reproductive Toxicity..... Based on available data, the classification criteria are not met. STOT - Single Exposure..... Specific target organ toxicity single exposure Category 3. May cause respiratory irritation. STOT - Repeated Exposure..... Not classified. Aspiration Hazard..... Based on available data, the classification criteria are not met. Chronic Effects..... No long term chronic effects are known or anticipated.		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... This product contains the following ingredients: Ethyl alcohol (CAS#: 64-17-5): Toxicity to fish: LC50 14200 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 9300 mg/L, 48 hrs; Toxicity to algae: not available.
 Persistence and degradability The product itself has not been tested.
 Bioaccumulation Potential..... The product itself has not been tested.
 Mobility in Soil..... The product itself has not been tested.
 Other Adverse Effects..... None Known.

SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate Disposal Methods..... Dispose in accordance with local, provincial and federal regulations.

PRODUCT: Zytac Clear Gel Hand Sanitizer 70% - 3.78 L**CODE: P1-001219****SECTION 14: TRANSPORT INFORMATION**

TDG (Canada- Road).....	UN1170, ETHANOL SOLUTION with more than 24% ethanol, by volume, Class 3, PG III.
DOT (US-Road).....	UN1170, ETHANOL SOLUTION with more than 24% ethanol, by volume, Class 3, PG III.
	Ltd. Qty.
IMDG (International- Marine).....	UN1170, ETHANOL SOLUTION with more than 24% ethanol, by volume, Class 3, PG III.
IATA (International- Air).....	UN1170, ETHANOL SOLUTION with more than 24% ethanol, by volume, Class 3, PG III.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:.....	Refer to Section 2 for a WHMIS 2015 Classification for this product.
Domestic Substances List (DSL).....	Yes.
US Regulations.....	All substances contained in this product are listed on the TSCA inventory or are exempt.

SECTION 16: OTHER INFORMATION

Disclaimer.....	The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Empack assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
Abbreviations.....	ACGIH: American Conference of Governmental Industrial Hygienists; CAS: Chemical Abstract Service; NIOSH: National Institute for Occupational Safety and Health, OSHA: Occupational Safety and Health Administration- USA; TSCA: Toxic Substances Control Act 1976-USA; PEL: Permissible Exposure Limit; REL: Recommended Exposure Limit; TLV: Threshold Limit Value; VOC: Volatile Organic Content; WHMIS: Workplace Hazardous Materials Information System STOT: Specific Target Organ Toxicity.
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