



Empack Spraytech Inc.
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Canada
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PRODUCT: Zytec GERM BUSTER Hand Sanitizer 70% - 60 mL (2 fl. oz.)

CODE: P1-001200

SECTION 1: IDENTIFICATION

Initial Supplier Identifier..... Empack Spraytech Inc.
Product Item Numbers..... P1-001200
Product Identity..... Zytec GERM BUSTER Hand Sanitizer 70% - 60 mL (2 fl. oz.)
Product Item Numbers..... P1-001200 (60 mL). P1-001201 (120 mL). P1-001202 (270 mL). P1-001204 (540 mL).
P1-001208 (1030 mL). P1-001217 (1 L). P1-001219 (3.78 L).
24 hour emergency telephone number..... In the event of a transport emergency, contact CANUTEC at 1-613-996-6666. For health emergencies, contact Empack Spraytech Inc. at 1-866-923-2665.
Recommended Use..... Hand sanitizer.
Restrictions on use..... Not available.

SECTION 2: HAZARD IDENTIFICATION



Label Elements:
Signal Word..... WARNING.
Hazard Classification:
Physical Hazards..... Flammable Liquids - Category 3.
Health Hazards..... Eye Irritation - Category 2A.
Environmental Hazards..... Not Classified.
Hazard Statement..... H226:Flammable liquid and vapour. H319:Causes serious eye 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. P241:Use explosion-proof electrical/ventilating/lighting equipment. P242:Use non-sparking tools. P243:Take action to prevent static discharges. P264+P265: Wash hands thoroughly after handling. Do not touch eyes. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response..... P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas 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+P317:If eye irritation persists: Get medical help.
Storage..... P403+P235:Store in a well ventilated place. Keep cool.
Disposal..... P501:Dispose of contents/container in accordance with local, regional, national, and/or international regulations.
Other hazards known to the supplier..... Not available.
Hazard(s) not otherwise classified (HNOC) For external use only. Discontinue use if rash, redness or itching occurs. KEEP OUT OF REACH OF CHILDREN.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	COMMON NAME & SYNONYMS	CAS #	WT. %
Ethyl alcohol		64-17-5	60-80

SECTION 4: 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.
Ingestion..... 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.

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Most important symptoms/effects, acute and delayed .. Causes serious 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 5: FIRE-FIGHTING MEASURES

General Fire Hazards..... 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
 Precautions for Firefighters .. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures 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.
 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 7: 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 8: 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	
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 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State..... Liquid.
 Colour..... Not available.
 Odour..... Mild alcohol .
 Melting Point and Freezing Point (°C)..... -115. (Ethanol).
 Boiling Point or Initial Boiling Point and Not available.
 Boiling Range (°C)
 Flammability..... Not applicable.
 Lower Explosive Limit (% vol)..... 3.3. (Ethanol).
 Upper Explosive Limit (% vol)..... 19.0. (Ethanol).
 Flash Point (°C), Method..... 31.
 Auto Ignition Temperature (°C)..... Not available.
 Decomposition Temperature..... Not available.

PRODUCT: Zytac GERM BUSTER Hand Sanitizer 70% - 60 mL (2 fl. oz.)**CODE: P1-001200****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

pH..... 6-7.
 Kinematic Viscosity..... Not available.
 Solubility..... Soluble in water.
 Partition Coefficient — n-Octanol/Water .. Not available.
 (Logarithmic Value)
 Vapour Pressure (psig)..... Not available.
 Density..... Not available.
 Relative Density..... Not available.
 Relative Vapour Density Not available.
 Particle Characteristics..... Not available.
 Aerosol Flame Projection..... Not applicable.
 Aerosol Ignition Distance..... Not applicable.
 Flashback..... Not applicable.
 VOC Content..... Greater than 60%.
 Note..... NMT = Not More Than.

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)
Information on Likely Routes of Exposure: Routes of entry - Inhalation..... No. Routes of entry - Skin & Eye..... Yes. Routes of entry - Ingestion..... Yes. 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..... Causes serious eye 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..... Not classified. 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..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment. This product contains the following substance which may also be hazardous for the environment: 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: Zytec GERM BUSTER Hand Sanitizer 70% - 60 mL (2 fl. oz.)**CODE: P1-001200****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.
Special precautions in connection with	None known.
transport or conveyance either within or outside the premises	
Environmental hazards.....	None known.

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental
Regulations

Canada Regulations:..... Compliant to the current Hazardous Products Regulations (HPR).

US Regulations

California Proposition 65..... This product is not subject to warning labeling under California Proposition 65.

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.
NFPA Storage Level.....	Class IB.
Prepared by	Regulatory Affairs
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