



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

PRODUCT: Zytec Hand Sanitizer Foam (Clear) 70% - 550 ml

CODE: P1-001404

SECTION 01: IDENTIFICATION

Product Identity..... Zytec Hand Sanitizer Foam (Clear) 70% - 550 ml
 Product Item Numbers..... P1-001404
 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.
 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. P280:Wear protective gloves/ protective clothing/ eye protection/ face protection. 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 . P264:Wash hand thoroughly after handling. 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. P337+P313:If eye irritation persists: Get medical advice/attention. P305+P351+P338:IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. P403+P233:Store in a well-ventilated place. 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

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..... Check for and remove contact lenses. Immediately flush eyes with water for a minimum of 15 minutes keeping eyelids open. Consult a doctor if any irritation occurs.

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SECTION 04: FIRST-AID MEASURES

Ingestion.....	If swallowed, get medical attention immediately. Do not induce vomiting, get medical attention. Ingestion is unlikely to occur. If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.
Inhalation.....	No specific effects have been reported when used as directed. 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.....	Dry chemical powder. Carbon dioxide. Foam, water spray or fog.
Unsuitable Extinguishing Media.....	Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards Arising from the Chemical	In case of fire, the following can be released: Carbon Oxides (CO, CO2), Other unidentified Organic Compounds.
Special Protective Equipment and Precautions for Firefighters	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.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	For small quantities wear gloves, wipe up with damp cloth, rinse cloth thoroughly and allow cloth to dry before laundering. Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Material can create slippery conditions. Use personal protective equipment.
Methods and Materials for Containment .. and Cleaning Up	Non-sparking tools should be used. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Soak up with inert absorbent material. Spill areas may be slippery. Use care to avoid falls or other accidents .
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.....	Keep container tightly closed. Avoid contact with eyes. Keep away from heat, sparks, and open flames.
Conditions for Safe Storage including any Incompatibilities	Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10).

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. Ground all equipment and cylinders before use.				
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.				

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State.....	Liquid.
Physical Appearance.....	Clear liquid.
Odour.....	Mild alcohol .
Odour Threshold (ppm).....	Not available.
pH.....	Not available.
Vapour Pressure (psig).....	Not applicable.
Vapour Density (Air=1).....	>1.
Evaporation Rate (n-Butyl Acetate = 1).....	Not available.
Boiling Point (°C).....	78.3. (Ethanol).
VOC Content.....	Not available.
Specific Gravity	0.850-0.920.
Solubility in water.....	Dispersible in water.
Auto Ignition Temperature (liquid), °C.....	370. (Ethanol). Approximately.
Flash Point (°C), Method.....	13. (ASTM D-56). (Ethanol).
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.....	No hazardous decomposition products when stored and handled correctly.

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.....	Causes mild skin irritation. Prolonged contact may be more irritating.	
Serious Eye Damage/Eye Irritation.....	Direct contact with eyes causes temporary irritation.	
Respiratory or Skin Sensitization.....	Inhalation may cause respiratory tract irritation. 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.....	No data available .	
Aspiration Hazard.....	No data available .	
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.

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SECTION 13: DISPOSAL CONSIDERATIONS

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

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.
 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 guarantee or warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. The SDS provider assumes no responsibility for personal injury or property damage to vendors or users or third parties, caused by the material. Such vendors 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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