



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

PRODUCT: ZGB Surface Disinfectant Wipes (Benzalkonium Chloride) - 100 wipes

CODE: P1-001855

SECTION 01: IDENTIFICATION

Product Identity..... ZGB Surface Disinfectant Wipes (Benzalkonium Chloride) - 100 wipes
 Product Item Numbers..... P1-001855
 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..... Hard surface disinfectant.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:
 Signal Word..... WARNING.
 Hazard Classification:
 Physical Hazards..... Not Classified.
 Health Hazards..... Skin Irritation - Category 3. Eye Irritation - Category 2B.
 Environmental Hazards..... Not Classified.
 Hazard Statement..... H316:Causes mild skin irritation. H320:Causes eye irritation.
 Precautionary Statements:
 Prevention..... P264:Wash hand thoroughly after handling.
 Response..... P332+P313:If skin irritation occurs: Get medical help. 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.
 Storage..... None.
 Disposal..... None.
 Hazard(s) not otherwise classified (HNOC) Use only as directed. KEEP OUT OF REACH OF CHILDREN.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Ethyl alcohol	64-17-5	3-7
Benzalkonium chloride	8001-54-5	0.1-1
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.
 Ingestion..... Ingestion is not a likely route of exposure. Do not induce vomiting, observe carefully, do not give liquid to person showing signs of sleepiness, reduced awareness or becoming unconscious. Give water to rinse out mouth. If irritation persists, 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. Supply fresh air if any irritations persists.
 Most important symptoms/effects, acute .. Direct eye contact may cause temporary eye irritation.
 and delayed

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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.
 Suitable Extinguishing Media..... Dry chemical powder. Carbon dioxide. Foam, water spray or fog.
 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 Do not ingest. Avoid contact with eyes. Ensure adequate ventilation. Material can create
 Equipment and Emergency Procedures slippery conditions. Use personal protective equipment.
 Methods and Materials for Containment .. Soak up with inert absorbent material. Spill areas may be slippery. Use care to avoid falls
 and Cleaning Up or other accidents . Wash with plenty of water. 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. Use with adequate ventilation.
 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	
Benzalkonium chloride	Not available	Not available	Not available	Not available	Not available	Not available
Fragrance	Not established	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..... Wet wipes.
 Physical Appearance..... Clear.
 Odour..... Lemon.
 Odour Threshold (ppm)..... Not available.
 pH..... 10-11.
 Aerosol Vapour Pressure (psig, 21°C)..... Not applicable.
 Vapour Pressure (psig)..... Not available.
 Evaporation Rate (n-Butyl Acetate = 1)..... Not available.
 Boiling Point (°C)..... 100.
 Melting/Freezing Point (°C)..... Not applicable.
 VOC Content..... No data.
 Relative Density/Specific Gravity..... No data.
 Solubility in water..... Soluble in water.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Auto Ignition Temperature (liquid), °C..... Not applicable.
 Flash Point (°C), Method..... Not applicable.
 Lower Explosive Limit (% vol)..... Not applicable.
 Upper Explosive Limit (% vol)..... Not applicable.
 Viscosity..... No data.
 Note..... The properties stated above refer to the physical and chemical properties of liquid used to wet the wipes.

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)
Benzalkonium chloride	Not available	Not available
Fragrance	No data	No data
Information on Likely Routes of Exposure:		
Routes of entry - Inhalation.....	No.	
Routes of entry - Skin & Eye.....	Yes.	
Routes of entry - Ingestion.....	No.	
Routes of entry - Skin Absorption.....	No.	
Symptoms Related to the Physical,	Irritant effects.	
Chemical and Toxicological Characteristics		
Acute Toxicity.....	No known significant effects.	
Skin Corrosion/Irritation.....	May cause mild skin irritation.	
Serious Eye Damage/Eye Irritation.....	Direct eye contact may cause slight redness.	
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.....	Based on available data, the classification criteria are not met.	
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..... Complete information is not yet available. This product has not been tested. Based on information available on its ingredients, no adverse environmental impact is anticipated under intended use in accordance with instructions .
 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.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... Not regulated as a dangerous good.
 DOT (US-Road)..... Not regulated as a dangerous good.
 IMDG (International- Marine)..... Not regulated as a dangerous good.
 IATA (International- Air)..... Not regulated as a dangerous good.

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SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... Refer to Section 2 for a WHMIS 2015 Classification for this product.
 Domestic Substances List (DSL)..... Yes.

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.

Prepared by Regulatory Affairs
 Latest Revision 2021-01-27