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

PRODUCT: Zytec Disinfectant Spray BOV (Citric Acid) - 400 ml **CODE: P1-001260**

SECTION 01: IDENTIFICATION

Product Identity.....	Zytec Disinfectant Spray BOV (Citric Acid) - 400 ml
Product Item Numbers.....	P1-001260
Supplier.....	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.....	Aerosols - Category 3. Gases Under Pressure - Compressed gas.
Health Hazards.....	Skin Irritation - Category 3.
Environmental Hazards.....	Not Classified.
Hazard Statement.....	H229:Pressurised container: May burst if heated (3). H280:Contains gas under pressure; may explode if heated (C). H316:Causes mild skin irritation.
Precautionary Statements:	
Prevention.....	P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251:Do not pierce or burn, even after use.
Response.....	P332+P313:If skin irritation occurs: Get medical help.
Storage.....	P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. P403:Store in a well ventilated place .
Disposal.....	None.
Hazard(s) not otherwise classified (HNOC)	Use only as directed. Direct eye contact may cause slight or mild, transient irritation. Do not use near eye or mouth areas and do not ingest.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Citric Acid	77-92-9	1-5
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 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.

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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 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	Use personal protective equipment. Do not ingest. Avoid contact with eyes. Ensure adequate ventilation.
Methods and Materials for Containment and Cleaning Up	Contain the spill. Clean up the spill area with detergent and water. Once spilled material has been collected, use rags or other suitable material to clean spill area. Rags should be properly disposed off.
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.
Storage Requirements	Aerosol Classification Level 1 (NFPA 30B, Code for the Manufacture and Storage of Aerosol Products).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Citric Acid	Not available	Not available	Not available	Not available	Not available
Fragrance	Not available	Not available	Not available	Not available	Not available

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	Spray.
Physical Appearance	Clear/Transparent .
Odour	Lemon.
Odour Threshold (ppm)	Not available.
pH	2.0 - 3.0.
Aerosol Vapour Pressure (psig, 21°C)	Not available.
Vapour Pressure (psig)	Not available.
Evaporation Rate (n-Butyl Acetate = 1)	Not available.
Boiling Point (°C)	100. (approximate).
Melting/Freezing Point (°C)	No data.
VOC Content	No data.
Relative Density/Specific Gravity	No data.
Solubility in water	Soluble in water.
Auto Ignition Temperature (liquid), °C	Not applicable.
Flash Point (°C), Method	No data.
Lower Explosive Limit (%, vol)	Not applicable.
Upper Explosive Limit (%, vol)	Not applicable.

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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
Citric Acid	Not available	11,700 mg/kg (Rat)
Fragrance	No data available	No data available

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..... Yes.
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..... No data available .
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)..... UN1950, AEROSOLS, Class 2.2, Ltd. qty.
DOT (US-Road)..... UN1950, AEROSOLS, Class 2.2, Ltd. qty., Consumer Commodity, ORM-D.
IMDG (International- Marine)..... UN1950, AEROSOLS, Class 2.2, Ltd. qty.
IATA (International- Air)..... UN1950, AEROSOLS, Class 2.2, Ltd. qty.

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 herin 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

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SECTION 16: OTHER INFORMATION

Disclaimer.....	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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