

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone LCD, LED and Plasma Screen Cleaner Foam - Laptop Kit****CODE: 047076****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone LCD, LED and Plasma Screen Cleaner Foam - Laptop Kit  
 Product Item Numbers..... 047076  
 Manufacturer..... Empack Spraytech Inc.  
 98 Walker Drive  
 Brampton  
 Ontario  
 Canada  
 L6T 4H6  
 905-792-6571  
 24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.  
 Recommended Use..... Cleans computer monitors, LCD, LED and television screens.  
 Consumer Commodity..... Yes.  
 Hazard Ratings:  
 HMIS..... Health: 1 Fire: 0 Reactivity: 0.  
 NFPA Rating..... Health: 1 Fire: 0 Reactivity: 0.

**SECTION 02: HAZARDS IDENTIFICATION**

Emergency Overview..... Container is under pressure. Container may explode if heated. Do not puncture. Do not burn. Do not swallow . KEEP OUT OF REACH OF CHILDREN .  
 Potential Health Effects:  
 Eye Contact..... May cause irritation, redness and pain.  
 Skin Contact ..... Possible mild irritation at point of contact.  
 Ingestion..... Ingestion may cause headache, nausea, vomiting and weakness.  
 Inhalation..... Inhalation of solvents or dust may cause irritation.

**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	WT. %
Isobutane	75-28-5	5-10
2-Butoxyethanol	111-76-2	1-5
Ethyl alcohol	64-17-5	0.1-1.0
Surfactants	Mix.	0.1- 1
Antistatic (and) UV agents	Proprietary	0.1-1.0

**SECTION 04: FIRST AID MEASURES**

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.  
 Skin Contact..... Wash thoroughly with soap and lukewarm water.  
 Ingestion..... Do not induce vomiting, get medical attention.  
 Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance. If breathing is difficult, give oxygen and get medical attention. Do not give adrenaline, epinephrine or similar drugs following exposure to this product.  
 Additional Information..... Note to the doctor; treat symptomatically.

**SECTION 05: FIRE FIGHTING MEASURES**

Flammability Class..... Non-Flammable.  
 Extinguishing Media..... Not flammable. Use regular extinguishing media whenever needed.  
 Sensitivity to Mechanical Impact..... Not expected to be sensitive.  
 Sensitivity to Static Discharge..... Not expected to be sensitive.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Spills and Leaks..... Large spill or leak is unlikely in aerosol containers. If happens, Soak up with absorbent material and hold for disposal.

PRODUCT: Emzone LCD, LED and Plasma Screen Cleaner Foam - Laptop Kit

CODE: 047076

**SECTION 07: HANDLING AND STORAGE**

Precautions for Safe Handling..... Avoid contact with eyes, skin, and clothing. Use in well ventilated area. Do not store in temperatures above 120°F (50°C).

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Isobutane	800 ppm	1000 ppm	800ppm	Not available	800 ppm (TWA)	
2-Butoxyethanol	20 ppm	Not available	50 ppm	Not available	Not available	
Ethyl alcohol	1000 ppm	Not available	1000 ppm	Not available	1000 ppm	
Surfactants	Not available	Not available	Not available	Not available	Not available	
Antistatic (and) UV agents	Not available	Not available	Not available	Not available	Not available	
Eye/Face Protection.....	Do not get in eyes. Wear safety glasses with side-shields.					
Skin Protection.....	Not normally required. Use rubber or latex gloves when there is a potential for prolonged or excessive skin contact.					
Respiratory Protection.....	Use dust and mist respirator.					
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.					
Exposure Limits						

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State.....	Aerosol.
Physical Appearance.....	Clear liquid.
Odour.....	Minor odour.
Odour Threshold (ppm).....	Not determined.
pH.....	7.0 - 8.0.
Vapour Pressure (psig).....	40-70.
Vapour Density (Air=1).....	> 1.
Evaporation Rate (n-Butyl Acetate = 1).....	< 1 (n-Butyl Acetate = 1).
Boiling Point liquid (°C).....	100 °C.
VOC Content.....	Not available.
Specific Gravity .....	0.880-0.920.
Specific Gravity (Aerosol).....	0.910-0.970.
Solubility in water.....	Soluble in water.
Aerosol Flame Projection.....	Not available .
Auto Ignition Temperature (Propellant), °C...	460°C (860°F).
Flashback.....	No data .
Flash Point (°C), Method.....	Closed cup: -83.15 °C (-117.7 °F).
Lower Flammable Limit (% Vol).....	1.8.
Upper Flammable Limit (% Vol).....	8.4.

**SECTION 10: STABILITY AND REACTIVITY**

Chemical Stability.....	Stable at normal temperatures and pressures.
Incompatible Materials.....	Strong oxidizing agents. Strong acids.
Conditions to Avoid.....	Avoid sources of heat and flame, and electrostatic charge.
Hazardous Decomposition Products.....	In combustion emits toxic fumes.
Possibility of Hazardous Reactions.....	No polymerization expected at normal use conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Isobutane	658 mg/L (Rat,4hrs)	Not available
2-Butoxyethanol	450 ppm (4hr Oral,Rat)	470 mg/kg (4hr Rat)
Ethyl alcohol	20,000 ppm (10 hrs, rat)	7,060 mg/kg (oral, rat)
Surfactants	Not available	Not available
Antistatic (and) UV agents	Not available	Not available
Route of Exposure.....	Eye contact, Skin contact, Skin absorption, Inhalation, and Ingestion.	
Effects of Acute Exposure.....	May cause eye irritation. May be irritating in case of skin contact.	
Chronic Effects.....	None known.	

PRODUCT: Emzone LCD, LED and Plasma Screen Cleaner Foam - Laptop Kit

CODE: 047076

**SECTION 11: TOXICOLOGICAL INFORMATION**

Carcinogenicity..... None known when used below acute toxicity limit.  
 Reproductive Toxicity..... No information is available, and no adverse effects are expected.  
 Teratogenicity..... No information is available, and no adverse effects are expected.  
 Germ Cell Mutagenicity..... No information is available, and no adverse effects are expected.  
 Toxicological Data

**SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... Liquid release is only expected to cause localized, non-persistent environmental damage, such as freezing.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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

**SECTION 14: TRANSPORT INFORMATION**

TDG (Canada- Road)..... AEROSOLS, Class 2.2, UN1950.  
 DOT (US-Road)..... AEROSOLS, Class 2.2, UN1950, LTD QTY, Consumer Commodity ORM-D.  
 IMDG (International- Marine)..... AEROSOLS, Class 2.2, UN1950.  
 IATA (International- Air)..... AEROSOLS, Class 2.2, UN1950, LTD QTY .

**SECTION 15: REGULATORY INFORMATION**

Canada Regulations:..... WHMIS Classification. A: Compressed gas. D1B: Material causing very toxic effects.  
 US Regulations:..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200). HMIS classification see section 01.

**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. THIS SDS IS VALID FOR THREE YEARS.

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 ..... FEB 28/2017