

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: emzone LCD, LED & Plasma Screen Cleaner - 400g****CODE: 047046****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... emzone LCD, LED & Plasma Screen Cleaner - 400g
 Product Item Numbers..... 047046
 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: 1 Reactivity: 0.
 NFPA Rating..... Health: 1 Fire: 1 Reactivity: 0.

SECTION 02: HAZARDS IDENTIFICATION

Emergency Overview..... Container is under pressure. Container may explode if heated. May cause skin and eye irritation. Do not puncture. Do not burn. Do not get in eyes or clothing. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:
 Eye Contact..... This product causes irritation, redness and pain.
 Skin Contact Can cause skin irritation. Prolonged or repeated contact may dry the skin.
 Ingestion..... Ingestion may cause headache, nausea, vomiting and weakness.
 Inhalation..... Inhalation of vapour may cause irritation.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Isobutane	75-28-5	5-10
Ethyl Alcohol	64-17-5	1-5
2-Butoxyethanol	111-76-2	0.1-1
Surfactants	Mix.	0.1- 1
DMDM hydantoin	6440-58-0	0.1-1
Antistatic (and) UV agents	Proprietary	0.1-1.0
Fragrance	Mix	0.1-1

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 (but contains flammable gas).
 Extinguishing Media..... Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear. Use water spray to cool fire-exposed containers in order to prevent pressure build up.
 Sensitivity to Mechanical Impact..... Not expected to be sensitive.
 Sensitivity to Static Discharge..... Not expected to be sensitive.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

Spills and Leaks..... Large spill or leak is unlikely in aerosol containers. If spill or leak occurs, ventilate enclosed spaces and disperse gas with floor-level forced-air ventilation. Remove all sources of ignition.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling..... Use with adequate ventilation. Do not store in temperatures above 120°F (50°C).

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		PEL	OSHA PEL		NIOSH
	TWA	STEL		STEL	REL	
Isobutane	800 ppm	1000 ppm	800ppm	Not available	800 ppm (TWA)	
Ethyl Alcohol	Not established	1,000 ppm 15 minutes	1,000 ppm	Not established	1,000 ppm	
2-Butoxyethanol	20 ppm	Not available	50 ppm	Not available	Not available	
Surfactants	Not available	Not available	Not available	Not available	Not available	
DMDM hydantoin	Not available	Not available	Not available	Not available	Not available	
Antistatic (and) UV agents	Not available	Not available	Not available	Not available	Not available	
Fragrance	Not established	Not established	Not established	Not established	Not established	
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 spray mist.
 Physical Appearance..... Cloudy liquid .
 Odour..... Slight hydrocarbon odour.
 Odour Threshold (ppm)..... Not determined.
 pH..... 10.0- 10.5.
 Vapour Pressure (psig)..... 50-80.
 Vapour Density (Air=1)..... > 1.
 Evaporation Rate (n-Butyl Acetate = 1)..... < 1 (n-Butyl Acetate = 1).
 Initial Boiling Point/Boiling Range (°C)..... 98-104.
 VOC Content..... Not available.
 Specific Gravity 0.980-1.020.
 Specific Gravity (Aerosol)..... 0.980-1.020 .
 Solubility in water..... Soluble in water.
 Aerosol Flame Projection..... No data.
 Auto Ignition Temperature (Propellant), °C... 460°C (860°F).
 Flashback..... No.
 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..... Under normal conditions of storage and use, hazardous decomposition products should not be produced .
 Possibility of Hazardous Reactions..... No polymerization expected at normal use conditions.

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Isobutane	658 mg/L (Rat,4hrs)	Not available
Ethyl Alcohol	20,000 ppm (10 hrs)	12.6 g/kg (Rat,Oral)
2-Butoxyethanol	450 ppm (4hr Oral,Rat)	470 mg/kg (4hr Rat)
Surfactants	Not available	Not available
DMDM hydantoin	3,300 mg/kg (rat - inhalation)	Not available
Antistatic (and) UV agents	Not available	Not available
Fragrance	No data	No data
Route of Exposure.....	Eye contact, Skin contact, Skin absorption, Inhalation, and Ingestion.	
Effects of Acute Exposure.....	May cause defatting of skin.	
Chronic Effects.....	May cause damage to the central nervous system .	
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. D2B: Material causing other toxic Materials.
 US Regulations:..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200) Classification: Compressed Gas. HIMS Classifications: 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.

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