



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

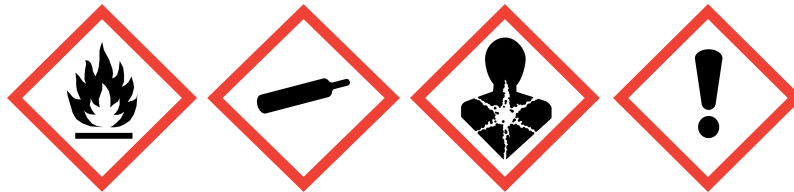
PRODUCT: Emzone Chain Cleaner - 390 g

CODE: P6-045034

SECTION 01: IDENTIFICATION

Product Item Numbers..... P6-045034
Product Identity..... Emzone Chain Cleaner - 390 g
Manufacturer..... Empack Spraytech Inc.
98 Walker Drive
Brampton
Ontario
Canada
L6T 4H6
905-792-6571
Recommended Use..... Chain cleaner.
Chemical Family..... Mixture.
24 hour emergency telephone number..... CANUTEC: 1-613-996-6666.

SECTION 02: HAZARD IDENTIFICATION



Label Elements:
Signal Word..... DANGER.
Hazard Classification:
Physical Hazards..... Flammable Aerosols - Category 2. Gases Under Pressure - Liquefied Gas.
Health Hazards..... Skin Irritation - Category 3. Eye Irritation - Category 2A. Specific Target Organ Toxicity, Repeated Exposure - Category 2. Aspiration Hazard - Category 1.
Environmental Hazards..... Not Classified.
Precautionary Statements:
Hazard Statement..... H223:Flammable aerosol. H229:Pressurised container: may burst if heated (2).
H280:Contains gas under pressure; may explode if heated (L). H316:Causes mild skin irritation. H319:Causes serious eye irritation. H373:May cause damage to organs through prolonged or repeated exposure. H304:May be fatal if swallowed and enters airways.
Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211:Do not spray on an open flame or other ignition source. P251:Do not pierce or burn, even after use. P264+P265: Wash hands thoroughly after handling. Do not touch eyes. P260:Do not breathe dust/ fume/ gas/ mist/ vapours /spray. P280:Wear eye protection/face protection.
Response..... P332+P317: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+P317:If eye irritation persists: Get medical help. P319: Get medical help if you feel unwell. P301+P316: IF SWALLOWED: Get emergency medical help immediately. . P331:Do NOT induce vomiting.
Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. P403:Store in a well ventilated place . 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) None Known.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Distillates (petroleum), Hydrotreated Light	64742-47-8	60-80
Isobutane	75-28-5	10-30
Propane	74-98-6	7-13
2-Butoxyethanol	111-76-2	1-5
Secondary Alcohol Ethoxylate	84133-50-6	1-5

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SECTION 04: FIRST-AID MEASURES

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance.

Skin Contact..... Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Consult a poison control centre or physician immediately.

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.

Ingestion..... If ingested, do not induce vomiting, get medical attention.

Most important symptoms/effects, acute .. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct and delayed contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.

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

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 Firefighters must use standard protective equipment including flame retardant coat, helmet Precautions for Firefighters with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

General Fire Hazards..... Flammable Aerosol.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective No action shall be taken involving any personal risk or without suitable training. Evacuate Equipment and Emergency Procedures surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid walking through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 08).

Methods and Materials for Containment .. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, and Cleaning Up 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.

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..... Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Avoid breathing vapour of this product. Avoid contact with skin and eyes. Avoid prolonged exposure. Use in well-ventilated areas.

Conditions for Safe Storage including any Incompatibilities Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not puncture, incinerate or crush. 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
Distillates (petroleum), Hydrotreated Light	200 mg/m ³ (as total hydrocarbon vapour)	Not available	Not available	Not available	Not available	Not available
Isobutane	Not available	1,000 ppm	Not available	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	Not available	Not available	Not available
2-Butoxyethanol	20 ppm	Not available	50 ppm	Not available	Not available	Not available
Secondary Alcohol Ethoxylate	Not available	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.					

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Individual Protection Measures:

Eye/Face Protection..... Chemical splash goggles are recommended.
 Skin Protection..... Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.
 Respiratory Protection..... Use dust and mist respirator.
 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

Form..... Aerosol.
 Physical Appearance..... Liquid.
 Odor..... Hydrocarbons.
 Odor Threshold (ppm)..... N/A.
 Specific Gravity (Liquid)..... 0.780-0.900.
 Vapour Pressure (psig)..... >30.
 pH..... Not applicable.
 Boiling Point liquid (°C)..... >150.
 Melting/Freezing Point (°C)..... -75 to -77.
 Flash Point (°C), Method..... -82.8. Closed cup. (Isobutane).
 Evaporation Rate (n-Butyl Acetate = 1)..... < 0.01.
 Solubility in water..... Slightly soluble in water.
 Aerosol Ignition Distance..... Ignition Distance of greater than or equal to 15 cm.
 Flashback..... Yes.
 Auto Ignition Temperature (°C)..... 460°C (860°F). (Isobutane).
 Lower Flammable Limit (% Vol)..... 1.8. (Isobutane).
 Upper Flammable Limit (% Vol)..... 8.8. (Isobutane).

SECTION 10: STABILITY AND REACTIVITY

Reactivity Product not reactive under normal conditions of use.
 Chemical Stability..... Material is stable under normal conditions.
 Possibility of Hazardous Reactions..... Will not occur.
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge.
 Incompatible Materials..... Keep away from heat. Strong oxidizing agents.
 Hazardous Decomposition Products..... See Section 05.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Distillates (petroleum), Hydrotreated Light	>5.2 mg/L (Rat - 4hrs)	>5,000 mg/kg (Oral - Rat); >2,000 mg/kg (Dermal - Rabbit)
Isobutane	658 mg/L (Rat - 4 hrs)	Not available
Propane	658 mg/L (Rat - 4 hrs)	Not available
2-Butoxyethanol	450 ppm (Rat - 4 hrs)	470 mg/kg (Oral - Rat)
Secondary Alcohol Ethoxylate	1.1 mg/L (4 hrs - rat)	Not available
Information on Likely Routes of Exposure:		
Routes of entry - Inhalation.....	Yes.	
Routes of entry - Skin & Eye.....	Yes.	
Routes of entry - Ingestion.....	Yes.	
Routes of entry - Skin Absorption.....	No.	
Symptoms Related to the Physical, Chemical and Toxicological Characteristics	Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.	
Acute Toxicity.....	Harmful or fatal if swallowed.	
Skin Corrosion/Irritation.....	Causes mild skin irritation. Prolonged contact may be more irritating.	
Serious Eye Damage/Eye Irritation.....	Direct eye contact may cause slight redness. Spraying directly into the eyes may cause frostbite, damage to the cornea resulting in permanent eye injury.	
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.....	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive Toxicity.....	Based on available data, the classification criteria are not met.	
STOT - Single Exposure.....	Not classified.	
STOT - Repeated Exposure.....	Specific Target Organ, Repeated Exposure- Category 2.	

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SECTION 11: TOXICOLOGICAL INFORMATION

Aspiration Hazard..... Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Chronic Effects..... Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

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: Distillates, petroleum, hydrotreated light (CAS#: 64742-47-8): Toxicity to fish: LC50 > 45 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC50 Not available; Toxicity to algae: EC50 Not available. 2-butoxyethanol (CAS#: 111-76-2): Not established.

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..... This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, provincial and federal regulations. Contents under pressure. Do not puncture, incinerate or expose to heat, even when empty.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty.

DOT (US-Road)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty., Consumer Commodity ORM-D.

IMDG (International- Marine)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty.

IATA (International- Air)..... UN1950, AEROSOLS, Class 2.1, Ltd. Qty.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... Refer to Section 2 for a WHMIS 2015 Classification for this product.

Canadian Environmental Protection Act ... All ingredients listed appear on the Domestic Substances List (DSL).
(CEPA)

US Regulations..... Environmental Protection Act: Constituents of this product are included on the TSCA inventory.

OSHA..... This product is considered hazardous under the Federal OSHA hazard communication standard.

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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