Empack Spraytech Inc.
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PRODUCT: Emzone Exotic 2.0 Brake and Parts Cleaner Pail (Pull-Up) - 18.9 L **CODE: P6-045274**

SECTION 01: IDENTIFICATION

Manufacturer..... Empack Spraytech Inc.
Product Item Numbers..... P6-045274
Product Identity..... Emzone Exotic 2.0 Brake and Parts Cleaner Pail (Pull-Up) - 18.9 L
24 hour emergency telephone number..... In the event of a transport emergency, contact CANUTEC at 1-613-996-6666. For health emergencies, contact Empack Spraytech Inc. at 1-866-923-2665.
Recommended Use..... Brake cleaner.

SECTION 02: HAZARD IDENTIFICATION

Label Elements:
Signal Word..... DANGER.
Hazard Classification:
Physical Hazards..... Flammable Liquids - Category 2.
Health Hazards..... Acute Toxicity Dermal - Category 5. Acute Toxicity Inhalation - Category 3. Skin Irritation - Category 3. Eye Damage/Irritation - Category 2A. Specific Target Organ Toxicity, Single Exposure - Category 3.
Environmental Hazards..... Not Classified.
Hazard Statement..... H225:Highly flammable liquid and vapour. H313:May be harmful in contact with skin . H331:Toxic if inhaled. H316:Causes mild skin irritation. H319:Causes serious eye irritation. H335:May cause respiratory irritation. H336:May cause drowsiness or dizziness.

Precautionary Statements:
Prevention..... P210:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233:Keep container tightly closed. P240:Ground and bond container and receiving equipment. P241:Use explosion-proof electrical/ventilating/lighting equipment. . P242:Use non-sparking tools. P243:Take action to prevent static discharges. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P271:Use only outdoors or in a well-ventilated area. P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
Response..... P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water. P370+P378:In case of fire: Use CO2, dry chemicals or foam to extinguish. P302+P317: IF ON SKIN: Get medical help. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316: Get emergency medical help immediately. . P319: Get medical help if you feel unwell. P321:For specific treatment see section 4 on this SDS. 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.
Storage..... P410+P412:Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. P403+P233:Store in a well-ventilated place. Keep container tightly closed. P235: Keep cool. 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. %
Liquid Organocarbonate	HMIRA RN Pending	30-60
Acetate	HMIRA RN Pending	30-60
Naphtha (petroleum), hydro-treated light	64742-49-0	5-10

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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	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	Do not induce vomiting, get medical attention. Rinse mouth. Obtain medical advice.
Most important symptoms/effects, acute and delayed	Toxic if inhaled.
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	No further relevant information available.
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. 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	Highly flammable liquid and vapour.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	No action shall be taken involving any personal risk or without suitable training. Evacuate 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 and Cleaning Up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, 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	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 contact with eyes, skin, and clothing. 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. 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	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Liquid Organocarbonate	Not established	Not established	Not established	Not established	100 ppm
Acetate	200 ppm	250 ppm	200 ppm	250 ppm	TWA 200 ppm (610 mg/m3) ST 250 ppm (760 mg/m3)
Naphtha (petroleum), hydro-treated light	353 ppm	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. Ensure that eyewash stations and safety showers are available.
Individual Protection Measures:	
Eye/Face Protection	Do not get in eyes. Wear safety glasses with side-shields.
Skin Protection	Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.
Respiratory Protection	Use dust and mist respirator.

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

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..... Liquid.
Physical Appearance..... Liquid.
Odor..... Hydrocarbons.
Odor Threshold (ppm)..... Not available.
Relative Density/Specific Gravity..... 0.980-1.020.
Vapour Pressure (mm Hg)..... >50.
Vapour Density (Air=1)..... >1.
pH..... Not applicable.
Boiling Point liquid (°C)..... >50.
Melting/Freezing Point (°C)..... Not available.
Flash point, Liquid (°C), Method..... -15.6. (Acetate).
Aerosol Ignition Distance..... Not applicable.
Flashback..... Not applicable.
Evaporation Rate (n-Butyl Acetate = 1)..... >1 .
VOC Content..... NMT 10.
Solubility in water..... Slightly soluble.
Auto Ignition Temperature (liquid), °C..... 458. (Liquid Organocarbonate).
Lower Flammable Limit (% Vol)..... 3.1. (Acetate).
Upper Flammable Limit (% Vol)..... 12.9. (Liquid Organocarbonate).
Note..... NMT = Not More Than.

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..... Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products..... Carbon Oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Liquid Organocarbonate	5.36 mg/L (4 hr - rat)	5,000 mg/kg (oral - rat); > 2,000 mg/kg (dermal - rat)
Acetate	49 mg/L (4 hr - rat)	6,482 mg/kg (oral - rat); > 2,000 mg/kg (dermal - rat)
Naphtha (petroleum), hydro-treated light	33-42 mg/L (Rat - 4 hrs)	>5,800 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rabbit)

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..... Yes.
Symptoms Related to the Physical, ... Irritant effects.
Chemical and Toxicological Characteristics
Acute Toxicity..... May be harmful in contact with skin. Toxic if inhaled.
Skin Corrosion/Irritation..... Causes mild skin irritation.
Serious Eye Damage/Eye Irritation..... Causes serious eye irritation.
Respiratory or Skin Sensitization..... Not classified.
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..... Not classified.
STOT - Single Exposure..... Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness. May cause respiratory irritation.
STOT - Repeated Exposure..... Not classified.
Aspiration Hazard..... Not classified.
Chronic Effects..... No long term chronic effects are known or anticipated.

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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:. Naphtha (CAS # 64742-49-0): Toxicity to fish: LC50 4.1 mg/L, 96 hrs; Toxicity to Daphnia: EC50 10 mg/L, 48 hrs; Toxicity to algae: EC50 11 mg/L, 72 hrs; NOEC 0.1 mg/L, 72 hrs.
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)	Flammable liquid, n.o.s. (Liquid Organocarbonate, Acetate, Naphtha), Class 3, UN 1993, PG II.
DOT (US-Road)	Flammable liquid, n.o.s. (Liquid Organocarbonate, Acetate, Naphtha), Class 3, UN 1993, PG II.
IMDG (International- Marine)	Flammable liquid, n.o.s. (Liquid Organocarbonate, Acetate, Naphtha), Class 3, UN 1993, PG II.
IATA (International- Air)	Flammable liquid, n.o.s. (Liquid Organocarbonate, Acetate, Naphtha), Class 3, UN 1993, PG II.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:	Refer to Section 2 for a WHMIS 2015 Classification for this product.
US Regulations	
California Proposition 65	This product is not subject to warning labeling under California Proposition 65.

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.
NFPA Storage Level	Not applicable.
Prepared by	Empack RA - ID# 001.
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