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

PRODUCT: Emzone Big Can VOC Brake Cleaner - 482 g **CODE: P6-045246**

SECTION 01: IDENTIFICATION

Manufacturer..... Empack Spraytech Inc.
Product Item Numbers..... P6-045246
Product Identity..... Emzone Big Can VOC Brake Cleaner - 482 g
24 hour emergency telephone number..... CANUTEC: 1-613-996-6666.
Recommended Use..... Brake cleaner.

SECTION 02: HAZARD IDENTIFICATION

Label Elements:
Signal Word..... DANGER.
Hazard Classification:
Physical Hazards..... Flammable Aerosols - Category 1. Gases Under Pressure - Compressed gas.
Health Hazards..... Skin Irritation - Category 3. Eye Damage/Irritation - Category 2A. Specific Target Organ Toxicity, Single Exposure - Category 3. Aspiration Hazard - Category 1.
Environmental Hazards..... Not Classified.
Hazard Statement..... H222:Extremely flammable aerosol (1). H229:Pressurized container: may burst if heated (1). H280:Contains gas under pressure; may explode if heated (C). H316:Causes mild skin irritation. H319:Causes serious eye irritation. H335:May cause respiratory irritation. H336:May cause drowsiness or dizziness. H304:May be fatal if swallowed and enters airways.

Precautionary Statements:
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. P280:Wear eye protection/face protection. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P271:Use only outdoors or in a well-ventilated area.
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. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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+P233:Store in a well-ventilated place. Keep container tightly closed. 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) Use only as directed.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetone	67-64-1	80-100
Carbon dioxide	124-38-9	5-10
Naphtha (petroleum), hydro-treated light	64742-49-0	3-7
Isopropyl alcohol	67-63-0	3-7

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.

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SECTION 04: FIRST-AID MEASURES

Ingestion	Do not induce vomiting, get medical attention. Rinse mouth. Obtain medical advice.
Most important symptoms/effects, acute and delayed	Aspiration hazard.
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	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
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	Extremely flammable aerosol.

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	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 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. 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	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Acetone	250 ppm	500 ppm	1,000 ppm (2,400 mg/m3)	Not available	Not available
Carbon dioxide	5000 ppm	30000 ppm	9000 mg/m3	Not available	STEL: 30000ppm; TWA: 5000ppm
Naphtha (petroleum), hydro-treated light	353 ppm	Not available	Not available	Not available	Not available
Isopropyl alcohol	400 ppm (980 mg/m3)	500 ppm (1,225 mg/m3)	400 ppm (980 mg/m3)	500 ppm (1,225 mg/m3)	400 ppm (980 mg/m3)

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..... Aerosol.
Physical Appearance..... Spray mist.
Odor..... Hydrocarbons.
Odor Threshold (ppm)..... 62 ppm. (Acetone).
Specific Gravity ..... 0.770-0.790.
Vapour Pressure (mm Hg)..... 108-185. (Acetone).
Vapour Density (Air=1)..... >1.
pH..... Not applicable.
Boiling Point liquid (°C)..... >55.
Melting/Freezing Point (°C)..... -95.35 - -93.9 °C. (Acetone).
Flash point, Liquid (°C), Method..... -18 - -17 °C. (Acetone).
Aerosol Ignition Distance..... Ignition Distance of greater than or equal to 75 cm.
Flashback..... Yes.
Evaporation Rate (n-Butyl Acetate = 1)..... >5.
VOC Content..... NMT 10.
Solubility in water..... Soluble in water.
Auto Ignition Temperature (liquid), °C..... 465-560 °C. (Acetone).
Lower Flammable Limit (% Vol)..... 2.5. (Acetone).
Upper Flammable Limit (% Vol)..... 14.3. (Acetone).
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
Acetone	71 mg/L (Rat - 4 hrs)	5,800 mg/kg (Oral - Rat); >15,800 mg/kg (Dermal - Rabbit)
Carbon dioxide	Not available	Not available
Naphtha (petroleum), hydro-treated light	33-42 mg/L (Rat - 4 hrs)	>5,800 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rabbit)
Isopropyl alcohol	73 mg/L (Rat - 4hrs)	3,636 mg/kg (Oral - Rat); 4,059 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..... No.
Symptoms Related to the Physical, ... Irritant effects.
Chemical and Toxicological Characteristics
Acute Toxicity..... No known significant effects.
Skin Corrosion/Irritation..... Causes mild skin irritation. Prolonged contact may be more irritating.
Serious Eye Damage/Eye Irritation..... Causes serious eye irritation.
Respiratory or Skin Sensitization..... Not classified.
Germ Cell Mutagenicity..... Not classified.
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..... May be fatal if swallowed and enters airways.

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SECTION 11: TOXICOLOGICAL INFORMATION

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:. Acetone (CAS#: 67-64-1): Toxicity to fish: LC50 >100 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 10294 mg/L, 48 hrs; Toxicity to algae: not available . 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. Isopropanol (CAS#: 67-63-0): Toxicity to fish: LC50 9,640 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 5,102 mg/L, 96 hrs; Toxicity to algae: EL50 >2,000 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. Dispose in accordance with local, provincial and federal regulations.

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.
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..... Level 3.
Prepared by ..... Regulatory Affairs
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