

empackEmpack Spraytech Inc.
98 Walker Drive
Brampton, Ontario, L6T 4H6
Canada
905-792-6571**PRODUCT: Emzone Lighter Fuel Fluid - 355 ml****CODE: P6-072086****SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Lighter Fuel Fluid - 355 ml
 Product Item Numbers..... P6-072086
 Manufacturer..... Empack Spraytech Inc.
 98 Walker Drive
 Brampton
 Ontario
 Canada
 L6T 4H6
 905-792-6571
 24 hour emergency telephone number..... In Canada: Call CANUTEC (613) 996-6666 - In The United States: Call CHEMTREC (800) 424-9300.
 Recommended Use..... For all wick lighters. Excellent for cleaning: Tar, Grease, Labels and Oil Stains.

SECTION 02: HAZARDS IDENTIFICATION

Label Elements:
 Signal Word..... DANGER.
 Hazard Classification:
 Physical Hazards..... Flammable Liquids - Category 2.
 Health Hazards..... Skin Irritation - Category 2. Specific Target Organ Toxicity, Single Exposure - Category 3.
 Aspiration Hazard - Category 1.
 Environmental Hazards..... Not Classified.
 Hazard Statement..... Highly flammable liquid and vapour. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
 Precautionary Statements:
 Prevention..... Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting . Use non-sparking tools. Take action to prevent static discharges. Wash hand thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing fume/gas/vapours. Use only outdoors or in a well-ventilated area.
 Response..... IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . In case of fire: Use CO₂, dry chemicals or foam to extinguish. If skin Irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting.
 Storage..... Store in a well ventilated place. Keep cool. Store locked up.
 Disposal..... Dispose of contents/ container in accordance with local/regional/national/international regulations.
 Hazard(s) not otherwise classified (HNOC) KEEP OUT OF REACH OF CHILDREN.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Heptane (including isomers)	64742-49-0	45-70
Distillates (petroleum), Hydrotreated Light	64742-47-8	15-40

SECTION 04: FIRST AID MEASURES

Skin Contact..... The product is not expected to be skin irritant. However, if irritation persists, wash the contact skin area with soap and water.
 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 attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY. Obtain medical advice.
Inhalation..... Most important symptoms/effects, acute .. and delayed	No specific effects have been reported. Supply fresh air if any irritations persists. Direct eye contact may cause temporary eye irritation.
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

General Fire Hazards.....	Flammable.
Suitable Extinguishing Media.....	Dry chemical powder. Carbon dioxide. Foam, water spray or fog.
Unsuitable Extinguishing Media.....	None in particular.
Specific Hazards Arising from the Chemical	None known.
Special Protective Equipment and	Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from immediate hazard area if it is safe to do.
Precautions for Firefighters	

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective	Ensure adequate ventilation; avoid formation of dust. Wear protective equipment and keep unprotected persons away. Use respiratory protection against the effects of dust.
Equipment and Emergency Procedures Methods and Materials for Containment .. and Cleaning Up	Contain the spill. Clean up the spill area with detergent and water. Once spilled material has been collected, use rags or other suitable material to clean spill area. Rags should be properly disposed off.
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.....	Avoid contact with eyes. Avoid breathing vapours or spray mists of this product. Use with adequate ventilation. Keep away from heat, sparks, and open flames.
Conditions for Safe Storage including any Incompatibilities	Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Heptane (including isomers)	1,600 mg/m ³ (RCP-TWA)	Not available	Not available	Not available	Not available	Not available
Distillates (petroleum), Hydrotreated Light	200 mg/m ³ (as total hydrocarbon vapour)	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.					
Individual Protection Measures:						
Eye/Face Protection.....	Prevent eye contact, wear safety glasses in the event that eye contact is possible.					
Skin Protection.....	Chemical resistant gloves are recommended. Avoid contact with the skin. Wear appropriate chemical resistant clothing.					
Respiratory Protection.....	With this product, there is a low likelihood that, when used in a well ventilated work area, the concentration of hazardous substances will exceed applicable threshold limits. In such cases, a NIOSH-approved half mask (nose and mouth) cartridge respirator equipped with organic vapour cartridge (OV) and particulate filters (N95) is acceptable. In poorly ventilated areas, or where a sudden release of product may occur (e.g. significant spillage), use an approved NIOSH-MSHA positive pressure, air supply respirator equipped with a full face piece, or an air-supplied hood. In all cases, follow respirator manufacturer's directions for use and establish a system of periodic maintenance (ref. OSHA guideline).					
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.					

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State.....	Liquid.
Physical Appearance.....	Clear/Transparent .
Odour.....	Petroleum odor.
Odour Threshold (ppm).....	Not available.
pH.....	N/A.
Aerosol Vapour Pressure (psig, 21°C).....	Not applicable.
Vapour Pressure (psig).....	5 kPa (37.5 mm Hg) at 20 deg. C. (Heptanes).
Vapour Density (Air=1).....	3.5. (Heptanes).
Evaporation Rate (n-Butyl Acetate = 1).....	Not available.
Boiling Point liquid (°C).....	94-99. (Heptanes).
Melting/Freezing Point (°C).....	-68.1°C (-90.58°F). (Petroleum distillates).
VOC Content.....	Not available.
Relative Density/Specific Gravity.....	0.710-0.760.
Solubility in water.....	Insoluble.
Auto Ignition Temperature (°C).....	265. (Heptane).
Flash Point (°C), Method.....	-9. (Heptane).
Lower Explosive Limit (% vol).....	1.1.
Upper Explosive Limit (% vol).....	6.0.
Coefficient of Water/Oil Distribution.....	>4.
Viscosity.....	0.6 cSt (0.6 mm2/sec) at 20 deg C. (Heptane).

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Product not reactive under normal conditions of use.
Chemical Stability.....	Stable at normal temperatures and pressures.
Possibility of Hazardous Reactions.....	Will not occur.
Conditions to Avoid.....	Avoid sources of heat and flame, and electrostatic charge.
Incompatible Materials.....	Avoid contacting with oxidizers.
Hazardous Decomposition Products.....	Normal products of combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Heptane (including isomers)	>23.3 mg/L (Rat - 4hrs)	>5,840 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rat)
Distillates (petroleum), Hydrotreated Light	>5.2 mg/L (Rat - 4hrs)	>5,000 mg/kg (Oral - Rat); >2,000 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, Chemical and Toxicological Characteristics	Irritant effects.	
Acute Toxicity.....	No known significant effects.	
Skin Corrosion/Irritation.....	Causes skin irritation.	
Serious Eye Damage/Eye Irritation.....	May irritate eyes.	
Respiratory or Skin Sensitization.....	Inhalation may cause respiratory tract irritation.	
Germ Cell Mutagenicity.....	No information is available, and no adverse effects are expected.	
Carcinogenicity.....	Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.	
Reproductive Toxicity.....	Based on available data, the classification criteria are not met.	
STOT - Single Exposure.....	Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.	
STOT - Repeated Exposure.....	Not classified.	
Aspiration Hazard.....	Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.	
Chronic Effects.....	Symptoms may include redness, edema, drying defatting and cracking of the skin.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Harmful to aquatic life. Should not be released into the environment. This product contains the following ingredients: . Heptanes including isomers (CAS#: 64742-49-0): Toxicity to fish: LL50 > 13.4 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EL50 3 mg/L, 48 hrs; Toxicity to algae: EL50 10-30 mg/L, 72 hrs. Chronic Toxicity Daphnia magna: NOEC 0.17 mg/L 21 days. 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.
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SECTION 12: ECOLOGICAL INFORMATION

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..... Dispose in accordance with local, provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... UN1993, FLAMMABLE LIQUID, N.O.S.(Petroleum distillates), Class 3, PG II.
 DOT (US-Road)..... UN1993, FLAMMABLE LIQUID, N.O.S.(Petroleum distillates), Class 3, PG II LTD QTY,
 Consumer Commodity, ORM-D.
 IATA (International- Air)..... UN1993, FLAMMABLE LIQUID, N.O.S.(Petroleum distillates), Class 3, PG II.
 IMDG (International- Marine)..... UN1993, FLAMMABLE LIQUID, N.O.S.(Petroleum distillates), Class 3, PG II.

SECTION 15: REGULATORY INFORMATION

Canada Regulations:..... WHMIS Classification. B2: Flammable liquid.
 US Regulations..... California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxics under California Proposed 65 at levels which would be subjected to the proposition.
 TSCA Inventory Status..... All components are listed on TSCA .
 Section 302 - Extremely Hazardous None .
 Substances

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. .
 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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