

**empack**  
spraytech inc.

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

**PRODUCT: Emzone Citrus Degreaser - 390 g**

**CODE: P6-045031**

### SECTION 01: IDENTIFICATION

Product Item Numbers..... P6-045031  
Product Identity..... Emzone Citrus Degreaser - 390 g  
Manufacturer..... Empack Spraytech Inc.  
98 Walker Drive  
Brampton  
Ontario  
Canada  
L6T 4H6  
905-792-6571  
24 hour emergency telephone number..... CANUTEC: 1-613-996-6666.  
Recommended Use..... Degreaser.

### 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 2. Eye Irritation - Category 2A. Skin Sensitization - Category 1.  
Carcinogenicity - Category 2. Reproductive Toxicity - Category 2. 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 (L). H315:Causes skin irritation. H319:Causes serious eye irritation. H317:May cause an allergic skin reaction. H351:Suspected of causing cancer. H361:Suspected of damaging fertility or the unborn child. 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. P261:Avoid breathing vapours/ spray. P272:Contaminated work clothing must not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P203:Obtain, read and follow all safety instructions before use. P271:Use only outdoors or in a well-ventilated area.  
Response..... P302+P352:IF ON SKIN: Wash with plenty of water. P333+P317: If skin irritation or rash occurs: Get medical help. P362+P364:Take off contaminated clothing and wash it before reuse. P321:For specific treatment see section 4 on this SDS. 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. P318: IF exposed or concerned, get medical advice. . 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) None Known.

**PRODUCT: Emzone Citrus Degreaser - 390 g****CODE: P6-045031****SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Stoddard Solvent	8052-41-3	10-30
Heptane (including isomers)	64742-49-0	10-30
D-Limonene	5989-27-5	10-30
Xylene	1330-20-7	10-30
Isopropyl alcohol	67-63-0	10-30
Carbon dioxide	124-38-9	1-5
Ethylbenzene	100-41-4	1-5

**SECTION 04: FIRST-AID MEASURES**

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.
Skin Contact.....	Wash thoroughly with soap and lukewarm 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.
Ingestion.....	Do not induce vomiting, get medical attention.
Most important symptoms/effects, acute .. and delayed	This product contains ingredients that are suspected of causing cancer.

**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).

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**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Stoddard Solvent	100 ppm	Not established	500 ppm (2900 mg/m <sup>3</sup> )	Not established	Not established
Heptane (including isomers)	1,600 mg/m <sup>3</sup> (RCP-TWA)	Not available	Not available	Not available	Not available
D-Limonene	Not available	Not available	Not available	Not available	Not available
Xylene	50 ppm	150 ppm	100 ppm (435 mg/m <sup>3</sup> )	Not established	Not established
Isopropyl alcohol	400 ppm (980 mg/m <sup>3</sup> )	500 ppm (1,225 mg/m <sup>3</sup> )	400 ppm (980 mg/m <sup>3</sup> )	500 ppm (1,225 mg/m <sup>3</sup> )	400 ppm (980 mg/m <sup>3</sup> )
Carbon dioxide	5000 ppm	30000 ppm	9000 mg/m <sup>3</sup>	Not available	STEL: 30000ppm; TWA: 5000ppm
Ethylbenzene	100 ppm	125 ppm	100 ppm (435 mg/m <sup>3</sup> )	Not established	100 ppm (435 mg/m <sup>3</sup> ) / STEL 125 ppm

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..... 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.....	Clear colorless liquid.
Odor.....	Hydrocarbons.
Odor Threshold (ppm).....	1-20. (Liquid).
Specific Gravity (Aerosol).....	0.780-0.860.
Flash Point (propellant).....	-9°C (16°F). (Heptane).
Vapour Density (Air=1).....	>1.
pH.....	Not applicable.
Boiling Point (°C).....	> 100.
Melting/Freezing Point (°C).....	> 40.
Evaporation Rate (n-Butyl Acetate = 1).....	>1.
Solubility in water.....	Slightly soluble in water.
Auto Ignition Temperature (°C).....	265. (Heptane).
Lower Flammable Limit (% Vol).....	1.1. (Heptane).
Upper Flammable Limit (% Vol).....	7.0. (Heptane).

**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
Stoddard Solvent	>5.5 mg/L (Rat - 4 hrs)	>5,000 mg/kg (Oral - Rat); >5,000 mg/g (Dermal)
Heptane (including isomers)	>23.3 mg/L (Rat - 4 hrs)	>5,840 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rat)

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**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
D-Limonene	Not available	2,000 mg/kg (Oral - Rat)
Xylene	27.6 mg/L (Rat - 4 hrs)	3,253 mg/kg (Oral - Rat); 12,180 mg/kg (Dermal - Rabbit)
Isopropyl alcohol	73 mg/L (Rat - 4hrs)	3,636 mg/kg (Oral - Rat); 4,059 mg/kg (Dermal - Rabbit)
Carbon dioxide	Not available	Not available
Ethylbenzene	4000 ppm (Rat - 4 hrs)	3,500 mg/kg (Rat - Oral); 17,800 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 skin irritation.	
Serious Eye Damage/Eye Irritation.....	Causes serious eye irritation.	
Respiratory or Skin Sensitization.....	May cause skin sensitization.	
Germ Cell Mutagenicity.....	No information is available.	
Carcinogenicity.....	Contains ingredients classified as carcinogens. Xylene (CAS#: 1330-20-7): ACGIH A4 Not Classified as a human carcinogen; IARC 3 Not classifiable as to carcinogenicity to humans. Ethylbenzene (CAS#: 100-41-4): IARC: Group 2B (Possibly Carcinogenic to Humans); ACGIH: Group A3 (Confirmed Animal carcinogen with unknown relevance to humans).	
Reproductive Toxicity.....	This product contains the following: Xylene (CAS#: 1330-20-7): Can cause adverse reproductive effects- such as birth defects, miscarriages, or infertility.	
STOT - Single Exposure.....	Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.	
STOT - Repeated Exposure.....	Not classified.	
Aspiration Hazard.....	May be fatal if swallowed and enters airways.	
Chronic Effects.....	No long term chronic effects are known or anticipated.	

**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: 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. D-Limonene (CAS#: 5989-27-5): Toxicity to Fish: LC50 0.702 mg/L, 96hr; Toxicity to Aquatic Invertebrate: EC50 0.421mg/L, 48hr; Toxicity to Algae: 1.81 mg/L. Xylene (CAS#:1330-20-7): Toxicity to fish: 780.0 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: EC50 0.8 mg/L , 48 hrs; Toxicity to algae: EC50 10.0mg/L. 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. Ethylbenzene (CAS#:100-41-4): Toxicity to fish: LC50 4.3mg/L,96hr; Toxicity to aquatic invertebrates: LC50 2.6mg/L,96hr; Toxicity to algae: EC5.0mg/L,96hr.
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).....	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.

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SECTION 15: REGULATORY INFORMATION

Canada Regulations:.....	Refer to Section 2 for a WHMIS 2015 Classification for this product.
Domestic Substances List (DSL).....	Yes.
US Regulations.....	Environmental Protection Act: Constituents of this product are included on the TSCA inventory. This product is considered hazardous under the 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.
Prepared by .....	Regulatory Affairs
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