

**empack**Empack Spraytech Inc.  
98 Walker Drive  
Brampton, Ontario, L6T 4H6  
Canada  
905-792-6571**PRODUCT: Emzone Air Intake Cab & Choke Cleaner - 418g****CODE: 045009****Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identity..... Emzone Air Intake Cab & Choke Cleaner - 418g  
 Product Item Numbers..... 045009  
 Manufactured by..... Empack Spraytech Inc.  
 98 Walker Drive  
 Brampton  
 Ontario  
 Canada  
 L6T 4H6  
 905-792-6571  
 24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.  
 Recommended Use..... Cleans dirt, gum and varnish from carburetors, fuel injection throttle bodies, automatic chokes.  
 Consumer Commodity..... Yes.  
 Hazard Ratings:  
 HMIS..... Health: 2 Fire: 4 Reactivity: 0.  
 NFPA Rating..... Health: 2 Fire: 4 Reactivity: 0.

**Section 02: HAZARDS IDENTIFICATION**

Emergency Overview..... Danger. Extremely flammable aerosol. Poison. Contents under pressure. Container may explode if heated. May catch fire. Aspiration hazard. May cause skin, eye, and respiratory tract irritation . Do not puncture. Do not burn. Harmful or fatal if swallowed. KEEP OUT OF REACH OF CHILDREN .

Potential Health Effects:  
 Eye Contact..... May cause irritation, redness and pain.  
 Skin Contact ..... Can cause skin irritation. Skin inflammation is characterized by itching, reddening, or blistering.  
 Ingestion..... Aspiration hazard if swallowed. Can enter lungs and cause damage. Can cause gastrointestinal disturbances.  
 Inhalation..... Inhalation may cause respiratory tract irritation. Can cause Central Nervous System (CNS) depression; symptoms include nausea, headache, dizziness, unconsciousness .

**Section 03: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	CAS #	Wt. %
Toluene	108-88-3	15-40
Xylene	1330-20-7	10-30
Acetone	67-64-1	10-30
Propane	74-98-6	10-30
Diacetone Alcohol	123-42-2	7-13
Isobutane	75-28-5	7-13

**Section 04: FIRST AID MEASURES**

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. Get medical attention if irritation persists.

Skin Contact..... Remove contaminated clothing. Immediately flush the contaminated skin with soap and water. If this chemical penetrates clothing, immediately remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention .

Ingestion..... If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.

Inhalation..... Move victim to fresh air. If breathing has stopped, give artificial respiration. If heartbeat absent, give external cardiac compression. Monitor breathing and pulse. If symptoms persist, call a physician.

Additional Information..... Note to the doctor; treat symptomatically.

**Section 05: FIRE FIGHTING MEASURES**

Flammability Class..... Extremely Flammable.  
 Extinguishing Media..... Carbon dioxide, dry chemicals, foam or water fog.  
 Sensitivity to Mechanical Impact..... Not expected to be sensitive.  
 Sensitivity to Static Discharge..... Not expected to be sensitive.

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**Section 06: ACCIDENTAL RELEASE MEASURES**

Spills and Leaks..... Put on appropriate personal protective equipment (see Section 08). Eliminate all sources of ignition and ventilate area. 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).

**Section 07: HANDLING AND STORAGE**

Handling..... Do not breathe vapour or mist. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation.

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

Eye/Type..... Safety glasses with side-shields.  
 Skin/Type..... Normally, no hand protection is required; however, prolonged or repeated contact with skin use chemical resistant gloves conforming to appropriate regulations. Observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.  
 Respiratory/Type..... Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed below), use NIOSH approved respiratory protection .  
 Engineering Controls..... Good general ventilation should be used. Ventilation rates should be matched to conditions. Use local exhaust ventilation to maintain airborne levels below the Threshold Limit Value.

## Exposure Limits

Ingredients	TWA	ACGIH TLV		PEL	OSHA PEL		REL	NIOSH
		STEL			STEL			
Toluene	20 ppm		Not available	Not available		Not available		Not available
Xylene	100 ppm		150 ppm	100 ppm (435 mg/m3)		150 ppm (655 mg/m3)		Not established
Acetone	500 ppm		750 ppm	Not available		1000 ppm		Not available
Propane	2,500 ppm		Not available	1,000 ppm		Not available		1,000 ppm
Diacetone Alcohol	Not available		Not available	Not available		Not available		Not available
Isobutane	800 ppm		1000 ppm	800ppm		Not available		800 ppm (TWA)

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State..... Aerosol.  
 Physical Appearance..... Yellow.  
 Odour..... Hydrocarbons.  
 Odour Threshold (ppm)..... 230.  
 pH..... Not applicable.  
 Internal can pressure (psig)..... 50-80.  
 Vapour Density (Air=1)..... > 1.  
 Evaporation Rate (n-Butyl Acetate = 1)..... <1.  
 Initial Boiling Point/Boiling Range (°C)..... Not available.  
 VOC Content..... 95-100 % wt.  
 Specific Gravity (Liquid)..... 0.880-0.920.  
 Specific Gravity (Aerosol)..... 0.730 - 0.770.  
 Solubility in water..... Nil.  
 Aerosol Flame Projection..... Not available .  
 Auto Ignition Temperature (Propellant), °C... 460 °C/860 °F.  
 Flashback..... Yes.  
 Flash Point (°C), Method..... Closed cup: -83.15 °C (-117.7 °F).  
 Lower Flammable Limit (% Vol)..... 1.8.  
 Upper Flammable Limit (% Vol)..... 9.5.

**Section 10: STABILITY AND REACTIVITY**

Stability..... Stable under the recommended storage and handling conditions.  
 Incompatibility..... Strong oxidizing agents.  
 Conditions to Avoid..... Avoid sources of heat and flame, and electrostatic charge. High temperatures may cause thermal decomposition.  
 Hazardous Products of Decomposition..... Fumes and smoke.  
 Hazardous Polymerization..... Will not occur.

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**Section 11: TOXICOLOGICAL INFORMATION**

Route of Exposure.....	Skin contact, Eye contact, Inhalation and Ingestion.
Effects of Acute Exposure.....	High vapor/aerosol concentrations may be irritating to eyes. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Ingestion may result in vomiting.
Effects of Chronic Exposure.....	Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. Prolong contact may defat and dry the skin, leading to discomfort and dermatitis .
Carcinogenicity of Material.....	Not classified as carcinogenic by ACGIH, IARC, OSHA or NTP.
Reproductive Effects.....	No information is available, and no adverse effects are expected.
Teratogenicity.....	No information is available, and no adverse effects are expected.
Mutagenicity.....	No information is available, and no adverse effects are expected.
<b>Toxicological Data</b>	

Ingredients	LC50	LD50
Toluene	20 mg/l (4 hrs)	> 5,000 mg/kg
Xylene	5000 ppm (4 hrs)	4300 mg/kg
Acetone	50,100 mg/m3 (8hr, rat)	5,800 mg/kg (oral, rat)
Propane	>800,000 ppm (15 min, Inh. rat)	Not available
Diacetone Alcohol	Not available	4000 mg/kg
Isobutane	658 mg/L (4hrs, rat)	Not available

**Section 12: ECOLOGICAL INFORMATION**

Environmental.....	Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Toluene: Toxicity to fish: LC50 5.5 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 3.78 mg/L, 48 hrs; Toxicity to algae: EL50 10.0 mg/L, 72 hrs. Xylene: Toxicity to fish: LC50 13.5 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: LD50 13 mg/L, 24 hrs. Acetone: Toxicity to fish: LC50 >100 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 10294 mg/L, 48 hrs. Diacetone alcohol: Toxicity to fish: LC50 420 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 8750 mg/L, 24 hrs; Toxicity to algae: EC 50 530 mg/L.
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**Section 13: DISPOSAL CONSIDERATIONS**

Appropriate Disposal Methods.....	Dispose in accordance with local, provincial and federal regulations. Don't puncture or incinerate containers, even when empty.
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**Section 14: TRANSPORT INFORMATION**

TDG (Canada- Road).....	AEROSOLS, Class 2.1, UN1950.
DOT (US-Road).....	AEROSOLS, Class 2.1, UN1950, LTD. QTY. OR ORM-D.
IMDG (International- Marine).....	AEROSOLS, Class 2.1, UN1950.
IATA (International- Air).....	AEROSOLS, Class 2.1, UN1950, LTD QTY.

**Section 15: REGULATORY INFORMATION**

Canada.....	WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. D2B: Material causing other toxic Materials. CPR (Canadian Controlled Product Regulations): All ingredients are CEPA approved for import to Canada. This product has been classified in accordance with the hazard criteria of the CPR and this SDS contains all information required by CPR. IDL (Canadian Ingredient Disclosure List): Component(s) of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List (section 03).
USA.....	Environmental Protection Act: Constituents of this product are included on the TSCA inventory. OSHA (29CFR 1910.1200). HMIS classification see section 01.

**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. THIS SDS IS VALID FOR THREE YEARS.
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**Section 16: OTHER INFORMATION**

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; WHIMIS: Workplace Hazardous Materials Information System.

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