

Canadian Tire Corporation
2180 Yonge Street
Toronto, ON, M4P2V8
Canada
416 544 6057

PRODUCT: Motomaster Electrical Contact Cleaner - 150 g

CODE: CT-251740

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Item Numbers..... CT-251740
Product Identity..... Motomaster Electrical Contact Cleaner - 150 g
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..... Cleans electrical contacts, connectors and switches.
Chemical Family..... Mixture.

SECTION 02: HAZARDS IDENTIFICATION



Label Elements:
Signal Word..... DANGER.
Hazard Classification:
Physical Hazards..... Flammable Aerosols - Category 1. Gases Under Pressure - Liquefied Gas .
Health Hazards..... Skin Irritation - Category 2. Specific Target Organ Toxicity, Single Exposure - Category 3.
Environmental Hazards..... Acute Aquatic Hazard - Category 2. Chronic Aquatic Hazard - Category 2.
Hazard Statement..... Extremely flammable aerosol. Pressurized container: may burst if heated. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Precautionary Statements:
Prevention..... Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash hand thoroughly after handling. Wear protective gloves. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
Response..... IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash 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. Collect spillage.
Storage..... Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal..... Dispose of contents/ container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None Known.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Heptane (including isomers)	64742-49-0	40-70
Propane	74-98-6	15-40
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.

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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.....	Ingestion is unlikely to occur. If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.
Most important symptoms/effects, acute .. and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.
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	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	NIOSH REL
Heptane (including isomers)	1,600 mg/m ³ (RCP-TWA)	Not available	Not available	Not available	Not available
Propane	Not available	Not available	1,000 ppm	Not available	Not available
Isopropyl Alcohol	400 ppm (980 mg/m ³)	500 ppm (1,225 mg/m ³)	400 ppm (980 mg/m ³)	500 ppm (1,225 mg/m ³)	400 ppm (980 mg/m ³)
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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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 mist.
 Odor..... Odorless.
 Odor Threshold (ppm)..... N/A.
 Specific Gravity (Liquid)..... 0.670-0.690.
 Specific Gravity (Aerosol)..... 0.621-0.635.
 Flash Point, °C (Propellant), Method..... -104. Estimated.
 Aerosol Vapour Pressure (psig, 21°C)..... 60-80.
 Vapour Density (Air=1)..... > 1.
 pH..... N/A.
 Boiling Point liquid (°C)..... 94-98. (Heptane).
 Melting/Freezing Point (°C)..... N/A.
 Evaporation Rate (n-Butyl Acetate = 1)..... > 1 (n-Butyl Acetate = 1).
 VOC Content..... Not available.
 Solubility in water..... Immiscible.
 Aerosol Flame Projection..... > 45 cm but < 100 cm.
 Flashback..... Yes.
 Auto Ignition Temperature (Propellant), °C..... 450.
 Lower Flammable Limit (% Vol)..... 2.2. (Propellant).
 Upper Flammable Limit (% Vol)..... 9.5. (Propellant).
 Coefficient of Water/Oil Distribution..... N/A.
 Viscosity..... 0.49 cSt (0.49 mm2/sec) at 40 °C. (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
Heptane (including isomers)	>23.3 mg/L (Rat - 4hrs)	>5,840 mg/kg (Oral - Rat); >2,920 mg/kg (Dermal - Rat)
Propane	658 mg/L (Rat - 4hrs)	Not available
Isopropyl Alcohol	73 mg/L (Rat - 4hrs)	1,870 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..... No.
 Routes of entry - Skin Absorption..... Yes.
 Symptoms Related to the Physical, Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
 Chemical and Toxicological Characteristics..... Harmful or fatal if swallowed.
 Acute Toxicity..... Causes skin irritation.
 Skin Corrosion/Irritation..... May irritate eyes.
 Serious Eye Damage/Eye Irritation..... May cause sensitization by skin contact.
 Respiratory or Skin Sensitization..... No data available to indicate product or any components present at greater than 0.1% are mutagenic.
 Germ Cell Mutagenicity..... This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
 Carcinogenicity..... Contains no ingredient listed as toxic to reproduction.
 Reproductive Toxicity..... Specific target organ toxicity single exposure Category 3. May cause drowsiness and dizziness.
 STOT - Single Exposure..... No data available .
 STOT - Repeated Exposure.....

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Aspiration Hazard..... Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

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..... Harmful to aquatic life. Should not be released into the environment. This product contains the following ingredients: . Heptane (CAS#:142-82-5): Toxicity to fish: LC50 1.284 mg/L, 96 hrs; Toxicity to other aquatic invertebrates: 0.1 mg/L, 96 hrs; Toxicity to algae: EL50 4.338 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.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada- Road)..... UN1950, AEROSOLS, Class 2.1.

DOT (US-Road)..... UN1950, AEROSOLS, Class 2.1, LTD QTY, Consumer Commodity ORM-D.

IMDG (International- Marine)..... UN1950, AEROSOLS, Class 2.1.

IATA (International- Air)..... UN1950, AEROSOLS, Class 2.1, LTD QTY.

SECTION 15: REGULATORY INFORMATION

Canada Regulations..... WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol. D2B: Material causing other toxic Materials.

Canadian Environmental Protection Act ... All ingredients listed appear on the Domestic Substances List (DSL).

(CEPA)

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.

California Proposition 65..... This product does not contain any chemical(s) known to the state of California to cause cancer or reproductivity toxicity.

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 Regularity Affairs.

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