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SHRADER CANADA 

38-1740-4

Motomaster Electrical Contact Cleaner, 150g**Section 1: Chemical Product and Company Identification**

Manufacturer or Supplier Shrader Canada Limited

Name:

Address: 830 Progress Court, Oakville, Ontario L6L 6K1

Date of MSDS Preparation: 02/22/2008

Revision: 1

Product Use: Cleaner.

Chemical Family: Petroleum distillates.

Section 2: Composition/Information on Ingredients

Component Name:	%	LD50 and LC50	ACGIH TWA	Ecotoxicity - Aquatic Toxicity
HEPTANE 142-82-5	60-100	Inhalation LC50 Rat:103 g/m ³ 4h	= 400 ppm TWA =500 ppm STEL	LC50 (96 h) cichlid fish: 375.0 mg/L. Cond: LC50 (24 h) goldfish: 4.0 mg/L. Cond: LC50 (24 h) mosquito fish: 4900 mg/L. Cond:
PETROLEUM GASES, LIQUEFIED, SWEETENED 68476-86-8	10-30	Not Available	Not available	Not Available
ISOPROPANOL 67-63-0	1-5	Dermal LD50 Rabbit:12800 mg/kg Dermal LD50 Rat:12800 mg/kg Oral LD50 Rat:4396 mg/kg Inhalation LC50 Rat:72.6 mg/L 4h	= 200 ppm TWA =400 ppm STEL	LC50 (96 h) fathead minnow (31 days old): 61200 mg/L. Cond: flow- through LC50 (96 h) fathead minnow (29 days old): 94900 mg/L. Cond: flow- through EC50 (5 min) Photobacterium phosphoreum : 35390 mg/L

Section 3: Hazards Identification

Ingestion: Ingestion of small amounts during normal handling are not likely to cause injury. Larger amounts may cause effects similar to those described under inhalation. Ingestion of large amounts may cause stomach irritation. Symptoms include nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Inhalation: High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness. No hazard under normal conditions of use.

Eye Contact: Direct contact causes eye irritation.

Chronic Effects: Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

Section 4: First Aid Measures

Ingestion:	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Skin Contact:	Remove contaminated clothing and launder before reuse. Wash with soap and water. Seek medical attention if irritation persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. Not a hazard under normal use conditions.
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Additional Information	If symptoms such as convulsions or unconsciousness occur before vomiting, gastric lavage should be considered. Hemodialysis should be considered in severe acute intoxications.

Section 5: Fire Fighting Measures

Flash Point (°C):	-8 °C
Flame Projection:	15 to 100cm. Flashback.
NFPA Classification:	Aerosol, Level 3
Lower Explosive Limit:	2.0 %
Upper Explosive Limit:	12.7 %

Autoignition Temperature (°C):
399

Sensitivity to Mechanical Impact:
Contents under pressure. Protect against physical damage.

Conditions of Flammability:
Extremely flammable. Contents under pressure. Vapours are heavier than air and may travel or be moved along the ground to an ignition source at locations distant from material handling. Sprayed product will project a flame on contact with an ignition source. Do not use on vehicles unless cool. Containers may explode if heated.

Sensitivity to Static Discharge:
Take precautionary measures against static discharges.

Hazardous Combustion:
Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Extinguishing Media:
Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires. Use water spray to cool fire exposed containers and prevent bursting. Do not use a direct stream of water.

Section 6: Accidental Release Measures

Leak or Spill Procedures:
Contain spilled material. Avoid contamination of natural waterways. Wear suitable protective clothing. Follow applicable explosion and fire precautions during the response. Stop the spill at the source when safe to do so. For large spills, dike the area to prevent spreading. Pump excess to a salvage container. Absorb residues and small spills with a non-flammable absorbent material and collect adsorbate for disposal. For large quantities refer to the environmental ministry.

Section 7: Handling and Storage

Handling Procedures:

Flammable. Keep away from heat, spark, flame and other sources of ignition. Containers of this material may contain hazardous residues when emptied. Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing vapours. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling. Wear all appropriate personal protective equipment during use. Do not use on hot vehicles.

Storage Requirements:

Keep away from children. Store in a cool, dry, well-ventilated area. Storage temperatures should not exceed 40°C. Keep from freezing.

Section 8: Exposure Controls / Personal Protection

Respiratory:	Not normally required. If the TLV is exceeded, a NIOSH-approved respirator is advised.
Gloves:	Neoprene. Nitrile gloves.
Eyewear:	Safety glasses. Contact lenses should not be worn. They may contribute to the severity of the injury.
Clothing:	Sufficient clothing to prevent skin contact.
Ventilation:	Sufficient mechanical ventilation to maintain exposures below the TLV. General mechanical ventilation is not recommended as the sole means of controlling exposure. Make-up air should always be supplied to balance air exhausted.
Other protective equipment	Emergency showers and eyewash facilities should be nearby. The selection of personal protective equipment will vary depending on the conditions of use.

Section 9: Physical and Chemical Properties

Physical State:	Aerosol
Odour:	Not Available
Appearance:	Clear Colourless.
Evaporation Rate:	Not Available
Vapour Density (Air=1):	> 1
VOC %:	100
pH:	Not available.
Solubility in Water:	Negligible
Specific Gravity (H2O=1):	0.74 at 15°C
Viscosity:	< 14cSt

Section 10: Stability and Reactivity

Conditions of Instability:

Stable at ambient and moderately elevated temperatures and pressures.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Hazardous Decomposition:

See hazardous combustion products.

Incompatible Materials:

Avoid strong oxidizers such as HOOH, HNO₃, and oleum.

Conditions of Reactivity:

Avoid excessive heat, sparks and open flame. Avoid contact with incompatible materials.

Section 11: Toxicological Information

Irritancy of Product:

May be mildly irritating to eyes and skin.

Sensitization to product:

Contains no known skin or respiratory sensitizers.

Carcinogenicity:

No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive Effects:

Not Available

Teratogenicity:

An inhalation rat study of isopropanol has shown fetotoxicity in the absence of maternal toxicity; an oral rat study showed reduced survival in the early postnatal period, in the presence of minimal maternal toxicity. (Note: Currently under review)

Mutagenicity:

Not Available

Synergistic Products:

Not Available

Section 12: Ecological Information

Environmental:

Toxic to aquatic life. Aromatic hydrocarbons may be bioaccumulative but they have no food chain concentration potential. See composition/information on ingredients.

Biodegradability:

Not available.

Section 13: Disposal Considerations

Waste Disposal:

Contents under pressure. Do not puncture, incinerate or expose to heat even when empty. Reuse or recycling should be given priority over disposal under any circumstances. Do not dump unused contents into sewers, on the ground or into any body of water. Dispose of in accordance with municipal, provincial and federal regulations.

Section 14: Transportation Information

Road shipment:

AEROSOLS, Class 2.1, UN1950, ERG #126.

Marine shipment:

UN1950, AEROSOLS, Class 2.1, EmS# F-D, S-U.

Flash Point (°C):

-8 °C

Air Shipment:

Aerosols, Flammable, Class 2.1, UN 1950, PI Y203/203.

Exemption:

LTD QTY exemptions may be used if product is packaged in accordance with Schedule 1 of TDGR (Clear Language).

Product may be reclassified for air transportation if packaged in accordance to IATA regulations (i.e. Consumer Commodity, Class 9, ID 8000).

Section 15: Regulatory Information

WHMIS: A, B5, D2A, D2B

CEPA: All components are listed on the Domestic Substances List (DSL).

CPR Compliance: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16: Other Information

HMIS Rating:

241B

Prepared By:

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Section 16: Other Information

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