T189LBC & T205LBC
Brake Parts Cleaner

Section 1: Chemical Product and Company Identification

Manufacturer / Supplier: Shrader Canada Limited
Address: 830 Progress Court, Oakville, Ontario L6L 6K1
Revision Date: 07/20/2011
Product Use: Cleaner
Chemical Family: Mixture

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:
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.

Skin Contact: Moderate to severe skin irritant, depending on duration of exposure.

Section 3: Hazards Identification

Eye Contact: Direct contact causes eye irritation. Symptoms will include pain, redness and tearing. Vapours will irritate the eyes. Moderate to severe eye irritant.

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. Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or is convulsing. Drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention immediately.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration and get medical attention immediately.

Skin Contact: Remove contaminated clothing and launder before reuse. Wash with soap and water. Seek medical attention if irritation persists.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses if any after the initial flushing and then continue flushing. Get medical attention if irritation persists.

Section 5: Fire Fighting Measures

Flash Point (ºC): -8 ºC
Flame Projection: Not Applicable.
NFPA Classification: Flammable Liquid, Class IB
Lower Explosive Limit: 2.0 %
Upper Explosive Limit: 12.7 %
Autoignition Temp. (ºC): 399

Sensitivity to Mechanical Impact:
Not Available

Conditions of Flammability:
Flammable when heated to temperatures above the flash point and on contact with an ignition source. Vapours are heavier than air and may travel or be moved along the ground to an ignition source at locations distant from material handling.

Sensitivity to Static Discharge:
Take precautionary measures against static discharges, such as bonding and grounding when dispensing.

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:
Extremely flammable. Keep away from heat, sparks, flame and other sources of ignition. Containers of this material may contain hazardous residues when emptied. Do not cut, weld, drill or grind on or near this container. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling.

Storage Requirements:
Extremely flammable. Keep away from heat, flame and oxidizers. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area. Storage temperatures should not exceed 35°C.

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:	Liquid
Color:	Clear / Colorless
Odour:	Petroleum
Vapour Density (Air=1):	> 1
VOC %:	100
pH:	Not Applicable
Solubility in Water:	Negligible
Specific Gravity (H2O=1):	0.700 @ 15°C
Viscosity:	< 14cSt @ 40°C

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 (e.g HOOH, HNO3).

Conditions of Reactivity:
Avoid excessive heat, sparks and open flame. Avoid contact with incompatible materials.

Section 11: Toxicological Information

Irritancy of Product:
Moderate to strong skin irritant, depending on duration of exposure. Moderate to severely irritating to eyes. Vapours or mists may cause respiratory irritation.

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:
Not Available

Mutagenicity:
Not Available

Synergystic Products:
Isopropanol increases the hepatoxic effects of chlorinated aliphatic hydrocarbons.

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: Reuse or recycling should be given priority over disposal under any circumstances. Destroy by incineration or biological treatment according to applicable legislation. Dispose of in accordance with municipal, provincial and federal regulations.

Section 14: Transportation Information

Road shipment: FLAMMABLE LIQUID, N.O.S. (Heptane, Isopropanol), Class 3, UN1993, PG II, ERG #128.

Marine shipment: UN1993, FLAMMABLE LIQUID, N.O.S. (Heptane, Isopropanol), Class 3, PG II, EmS# F-E, S-E

Air Shipment: Flammable liquid, N.O.S. (Heptane, Isopropanol), Class 3, UN1993, PG II, PI 305/307.

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: B2 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: 230B
Prepared By: Regulatory Compliance, Shrader Canada Limited
Information Tel #: 800-201-9486, 905-847-0222
Information Fax #: 905-847-5404

CANUTEC EMERGENCY: 613-996-6666