

RS34087 Red Stallion Fuel Injector & Combustion Chamber Cleaner



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:

07/01/2008

Revision:

2

Product Use:

Fuel injector cleaner.

Chemical Family:

Complex mixture Blend of petroleum-based solvents and

detergents.

Section 2: Composition/Information on Ingredients

Component Name:	%	LD50 and LC50	ACGIH TWA	Ecotoxicity - Aquatic
				Toxicity
PETROLEUM SOLVENT (C8-C10) 64742-95-6	10-30	Inhalation LC50 Rat:3400 ppm 4h Oral LD50 Rat:8400 mg/kg Dermal LD50 Rabbit:2000 mg/kg Inhalation LC50 Rat:5.2 mg/L 4h	Not available	Not Available
OLEIC ACID	1-5	Oral LD50 Rat:74	Not available	LC50 (96 h) fathead
112-80-1	-5	g/kg	Not available	minnow: 205 mg/L. Cond:
METHYLISOBUTYL CARBINOL 108-11-2	1-5	Oral LD50 Rat:2590 mg/kg Dermal LD50 Rabbit:2870 mg/kg Inhalation LC50 Rat:16 mg/L 4h Inhalation LC50 Rat:3776 ppm 4h	= 25 ppm TWA =40 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	LC50 (24 h) goldfish: 360 mg/L. Cond: LC50 (96 h) water flea: 143.17 mg/L
2-BUTOXYETHANOL 111-76-2	1-5	Inhalation LC50 Rat:2.21 mg/L 4h Dermal LD50 Rabbit:220 mg/kg Dermal LD50 Rat:2270 mg/kg Inhalation LC50 Rat:450 ppm 4h Oral LD50 Rat:470 mg/kg	= 20 ppm TWA	LC50 (24 h) goldfish: 1650 mg/L. Cond: LC50 (96 h) bluegill: 1490 mg/L. Cond: static LC50 (24 h) water flea: 1720 mg/L
NITROGEN 7727-37-9	0.5-1.5	Not Available	Not available	Not Available
AMMONIA SOLUTION 1336-21-6	0.5-1.5	Oral LD50 Rat:350 mg/kg	Not available	LC50 (96 h) fathead minnow: 8.2 mg/L. Cond: LC50 (48 h) bluegill: 0.024 mg/L. Cond: LC50 (24 h) rainbow trout: 0.008 mg/L. Cond: EC50 (48 h) water flea: 0.66 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.

Eye Contact: Direct contact causes eye irritation. Symptoms will include

pain, redness and tearing.

Chronic Effects: Chronic overexposure to 2-Butoxyethanol may cause liver, kidney

and blood damage. 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 vomitting. If conscious, immediately drink one

half to one glass of water to dilute. Call physician.

Skin Contact:

Remove contaminated clothing and launder before reuse. We have the contact of the cont

Remove contaminated clothing and launder before reuse. Wash

with soap and water. Seek medical attention if irritation

persists.

Inhalation: Not a haz

Not a hazard under normal use conditions. If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

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 immediate medical attention.

Additional Information The main hazard following ingestion is aspiration of the liquid

into the lungs during subsequent vomiting. Only if more than 2.0~mL/kg body weight has been ingested, vomiting should be induced with supervision. If symptoms such as convulsions or unconsciousness occur before vomiting, gastric lavage should be

considered.

Section 5: Fire Fighting Measures

Flash Point (°C): 9 TCC (Liquid Component)

Flame Projection: Not Applicable.

NFPA Classification: Aerosol, Level 3
Lower Explosive Limit: Not Available

Lower Explosive Limit: Not Available
Upper Explosive Limit: Not Available

Autoignition Temperature (°C):

Not Available

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:

Oxides of carbon, sulfur, nitrogen, phosphorous 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 explosition 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. Avoid skin and eye contact. Wear all appropriate personal protective equipment during use. 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. 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. Store at ambient temperatures above 10°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.

Sufficient clothing to prevent skin contact.

Clothing: Ventilation:

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. 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:

Aromatic odour.

Appearance: Evaporation Rate:

Clear Amber. Not Available

Vapour Density (Air=1):

> 1 78

VOC %: pH:

Not Applicable

Solubility in Water:

Partial

Specific Gravity (H2O=1): 0.80 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.

Section 11: Toxicological Information

Irritancy of Product:

Moderately 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:

2-butoxyethanol is an experimental reproductive toxin.

Teratogenicity:

In laboratory animal teratology studies on 2-Butoxyethanol, no embryotoxicity or lethality was observed without maternal effects (concentrations 100-300 ppm). These studies do not establish a risk of birth defects in humans.

Mutagenicity:

The results of in-vitro mutagenicity tests have been inconclusive. In-vitro mutagenicity tests for 2-Butoxyethanol have been negative.

Synergystic 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.

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):

9 TCC (Liquid Component)

Air Shipment:

Aerosols, Flammable, Class 2.1, UN1950, 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 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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