

SAFETY DATA SHEET

Fuel injector cleaner



SECTION 1. Product Identification

Product Name: Fuel injector cleaner

Product Use: Automotive maintenance product – For consumer and professional use

SECTION 2. Hazards Identification

EMERGENCY OVERVIEW

DANGER: Combustible liquid and vapor. Eye and skin irritant. Inhalation of mists or vapors may cause respiratory irritation and central nervous system effects such as dizziness, drowsiness, headache and nausea. Aspiration hazard – may enter the lungs during swallowing or vomiting and cause serious lung damage, which may be fatal. Ingestion may also cause gastrointestinal effects such as nausea, vomiting and diarrhea and central nervous system effects. Contains materials that may cause cancer based on animal data. This risk of exposure depends on the level and duration of exposure.

SECTION 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Hydrosulfurized Kerosene	64742-81-0	80-100%
Naphthalene	91-20-3	1-10%
Solvent naphtha (petroleum), light aromatic	64742-95-6	1- 8%
Polyolefin alkyl phenol alkyl amine	Proprietary	1-5%
1,2,4-Trimethylbenzene	95-63-6	<3%
1,3,5-Trimethylbenzene	108-67-8	<2%
Ethyl benzene	100-41-4	<1%

SECTION 4. First Aid Measures

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention if symptoms appear and persist.

Skin Contact: Remove contaminated clothing and launder before reuse. Wash exposed skin with soap and water. If skin irritation or redness develops, get medical attention.

Eye Contact: Flush eyes with large amounts of water for 15 minutes. If irritation or other symptoms persist, get medical attention.

Ingestion: DO NOT induce vomiting. If the victim is fully conscious, have them rinse their mouth with water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

SECTION 5. Firefighting Measures

Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Unusual Fire Hazards: Combustible liquid and vapor. Vapors may accumulate in confined areas and present a fire or explosion hazard. Closed containers may rupture if exposed to extreme heat.

Hazardous Combustion Products: Burning may produce carbon monoxide and carbon dioxide.

SECTION 6. Accidental Release Measures

Personal Precautions: Caution – slip hazard. Eliminate all ignition sources and ventilate the area. Ventilate the area. Wear appropriate protective equipment.

Environmental Precautions: Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations. Notify the National Response Center if a spill of any amount enters navigable waters, the contiguous zone, or adjoining shorelines.

Methods for Containment and Clean-Up: Stop spill at the source if it is safe to do so. Absorb with an inert material. Collect into a suitable container for disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard.

SECTION 7 HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Wash exposed skin thoroughly with soap and water after use. Keep containers closed when not in use. Do not permit smoking in use or storage areas.

Keep out of the reach of children.

Store in a cool, dry, well ventilated area. Store away from oxidizing agents and other incompatible materials.

Empty containers retain product residue and may be hazardous. Do not reuse empty containers.

SECTION 8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Hydrosulfurized Kerosene (as total hydrocarbon vapor)	200 mg/m ³ skin TWA ACGIH TLV
Solvent naphtha (petroleum), light aromatic	None Established
Polyolefin alkyl phenol alkyl amine	None Established
Naphthalene	10 ppm TWA OSHA PEL 10 ppm skin TWA, 15 ppm STEL ACGIH TLV
1,2,4-Trimethylbenzene	25 ppm TWA ACGIH
1,3,5-Trimethylbenzene	25 ppm TWA ACGIH
Ethyl benzene	100 ppm TWA OSHA PEL

20 ppm TWA, 125 ppm STEL ACGIH TLV

Ventilation: General ventilation should be adequate for all normal use. For operations where the TLV may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

Respiratory Protection: None under normal use conditions. For operations where the TLV is exceeded, a NIOSH approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Gloves: Impervious gloves such as neoprene or nitrile are recommended if needed to avoid prolonged or repeated skin contact.

Eye Protection: Safety glasses or goggles are recommended if eye contact is possible.

Other Protective Equipment/Clothing: Appropriate protective clothing as needed to prevent prolonged/repeated skin contact.

SECTION 9. Physical and Chemical Properties

Appearance And Odor: Clear, colorless to light amber colored liquid with a hydrocarbon odor.

pH: Not applicable

Boiling Point: Not determined

Freezing Point: Not determined

Solubility In Water: Insoluble

Viscosity: Not determined

Coefficient Of Water/Oil Distribution: Not determined

Flash Point: 111°F (44°C) CC minimum

UEL: 4.7 (kerosene)

Specific Gravity: 0.77-0.92

Vapor Pressure: 20 mmHg @ 70°C

Vapor Density: >1

Percent Volatile: 100%

Evaporation Rate: Not determined

Autoignition Temp: Not Determined

Flammability Limits: LEL: 0.6 (kerosene)

SECTION 10. Stability and Reactivity

Stability: Stable

Conditions To Avoid: Keep away from excessive heat and open flames.

Incompatibility: Strong oxidizing agents and reducing agents.

Hazardous Decomposition Products: Burning may produce carbon monoxide and carbon dioxide.

SECTION 11. Toxicological Information

Acute Hazards:

Inhalation: Inhalation of mists or vapors may cause upper respiratory tract irritation and central nervous

system effects such as dizziness, drowsiness, headache and nausea.

Skin Contact: May cause skin irritation. Prolonged or repeated contact may cause defatting and drying of the skin and dermatitis.

Eye Contact: Direct contact may cause eye irritation with redness, tearing and pain.

Ingestion: Aspiration hazard – may enter the lungs during swallowing or vomiting and cause serious lung damage, which may be fatal. Ingestion may also cause gastrointestinal effects such as nausea, vomiting and diarrhea and central nervous system effects with symptoms of drowsiness, headache, dizziness and unconsciousness.

Chronic Hazards: Prolonged or repeated overexposure may cause adverse effects on the blood, kidneys, liver, heart and immune system.

Medical Conditions Aggravated By Exposure: Because of its defatting properties, this product may aggravate an existing dermatitis.

Carcinogen: Naphthalene is classified by IARC as a possible human carcinogen (group 2B) and by NTP as a reasonably anticipated human carcinogen. Ethyl benzene is classified by IARC as a possible human carcinogen (group 2B).

Acute Toxicity Values:

Hydrosulfurized Kerosene (as total hydrocarbon vapor): No data available

Solvent naphtha (petroleum), light aromatic: LD50 Oral Rat: 2900-8400 mg/kg

Polyolefin alkyl phenol alkyl amine: No data available

Naphthalene: LD50 Oral Rat: 2200-2600 mg/kg; LD50 Skin Rabbit >2000 mg/kg

1,2,4-Trimethylbenzene: LD50 Oral Rat: 3400-6000 mg/kg; LD50 Skin Rabbit 3160 mg/kg

1,3,5-Trimethylbenzene: No data available

Ethyl benzene: LD50 Oral Rat: 3500 mg/kg; LD50 Skin Rabbit >17,800 mg/kg

SETCION 12. Ecological Information

No ecotoxicity data is currently available. This product may be harmful to aquatic life with long-lasting effects. This product contains components which may be persistent in the environment.

SECTION 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations.

SECTION 14. TRANSPORTATION INFORMATION

DOT Hazardous Materials Description:

UN 1268, Petroleum Distillates n.o.s.(hydrosulfurized kerosene), Class 3, PG III, FP 44°C c.c., Ltd Qty

IATA International Air Transport Association:

UN 1268, Petroleum Distillates n.o.s.(hydrosulfurized kerosene), Class 3, PG III, FP 44°C c.c., Ltd Qty

IMDG Dangerous Goods Description:

UN 1268, Petroleum Distillates n.o.s.(hydrosulfurized kerosene), Class 3, PG III, FP 44°C c.c., Ltd Qty
Marine Pollutant

SECTION 15. REGULATORY INFORMATION

United States:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA Section 103: This product has an RQ of 1000 lbs based on the RQ for naphthalene of 100 lbs present at 10% maximum. Oil spills must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health, Chronic Health, Fire Hazard

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): Naphthalene 1-10%

Ethyl Benzene <1%

1,2,4-Trimethylbenzene <3%

Canada:

Canadian WHMIS Classification: Class B-3 (Combustible Liquid), Class D - Division 2 - Subdivision A - (Very toxic material causing other toxic effects)

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Other International:

China: All of the ingredients are listed on the Chinese chemical inventory.

European Union: All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

Japan: All of the components are listed on Japanese MITI inventory.

Korea: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

*****End of MSDS*****

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