

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Fuel Injector Cleaner
MSDS NO. 4684
Revision Date: 01/04/2010
Date Printed: 01/04/2010

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Fuel Injector Cleaner
Chemical Family: PETROLEUM DISTILLATE
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Solvent naphtha (petroleum), light aromatic 64742-95-6	1-10	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	1-10	Not Listed	Not Listed	Not Listed
Polyolefin alkylphenol HC1 alkylamine N/A	1-10	Not Listed	Not Listed	Not Listed
Heavy Aliphatic Solvent Naphtha 64742-96-7	90-100	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Solvent naphtha (petroleum), light aromatic 64742-95-6	1-10	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	1-10	Not Listed	Not Listed	Not Listed
Polyolefin alkylphenol HC1 alkylamine N/A	1-10	Not Listed	Not Listed	Not Listed
Heavy Aliphatic Solvent Naphtha 64742-96-7	90-100	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Solvent naphtha (petroleum), light aromatic 64742-95-6	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed
Polyolefin alkylphenol HC1 alkylamine N/A	Not Listed	Not Listed	Not Listed
Heavy Aliphatic Solvent Naphtha 64742-96-7	Not Listed	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

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3. HAZARDS IDENTIFICATION

Emergency Overview: Warning! Combustible Liquid and Vapor. Harmful if inhaled. May cause delayed lung injury. Exposure to vapors can cause central nervous system depression, drowsiness, weakness, headache, dizziness, and nausea. Avoid breathing vapors. Avoid contact with skin and eyes. Keep away from heat, sparks, and flame.

HMIS Classification: Health: 2 Flammability: 2 Physical Hazard: 0
NFPA Rating: Health: 2 Flammability: 2 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. If victim is conscious and alert, give 1-2 glasses of water to drink. If vomiting occurs, keep head lower than hips to prevent aspiration.
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.
Skin Contact: Wash with soap and water. Remove contaminated clothing and shoes, and launder before reuse. If irritation or rash develops, obtain medical assistance.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): >155 F (>68.3 C)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): .7 vol %
Flammable Limits in Air - Upper (%): 6 vol %
Autoignition Temperature °F(°C): >550 F (>287.8 C)
Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam. Water stream may spread fire. Use water spray to keep containers cool that are exposed to heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: Fumes and Smoke. Oxides of Carbon. Oxides of Nitrogen.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Sweep or scrape up material and place in a suitable clean, dry container for disposal by approved methods.
Action to be taken if material is released or spilled: Increase area ventilation. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers.
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage: Keep away from heat and open flame. Keep containers tightly closed when not in use. Wash thoroughly after handling. Use only with adequate ventilation. Avoid extreme temperatures. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation. Showers. Eyewash stations.
Eyes: Wear safety glasses or goggles to protect against exposure. Chemical goggles; also wear a face shield if splashing hazard exists.
Skin Protection: Avoid skin contact. Wear protective clothing and gloves. Neoprene coated apron or clothing. Nitrile coated apron or clothing.
Respiratory Protection: Use an approved NIOSH organic vapor respirator below the TLV. If TLV is exceeded or overexposure is likely, use positive pressure or self contained breathing apparatus.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid
 Odor: KEROSENE
 pH Value: Not Determined
 Vapor Pressure: .00386 psia @ 68F
 Vapor Density (Air=1): 6
 Boiling Point (°F): >400F (>204.4 C)
 Melting/Freezing Point: 25F
 Solubility in Water: NEGLIGIBLE
 Bulk Density at 20°C: Not Determined
 Molecular Weight: Mixture
 Specific Gravity (H2O=1): .79 @ 70F
 Viscosity: >1.7 cst @ 40C
 Evaporation Rate: Not Determined
 VOC Content(%): 5.04 (CARB Method 310)
 Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.
 Conditions to Avoid: Keep away from heat, sparks and flame. Do not expose to heat or store at temperatures above 120 F.
 Materials to Avoid: Strong oxidizing agents.
 Hazardous Decomposition Products: Carbon monoxide and other asphixiates.
 Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Solvent naphtha (petroleum), light aromatic 64742-95-6	Oral	Rats	LD50 8400 mg/kg
1,2,4-trimethylbenzene 95-63-6	Inhalation	Rats	LC50 18 gm/m ³ /4H
Polyolefin alkylphenol HC1 alkylamine N/A	NA	NA	Not known.
Heavy Aliphatic Solvent Naphtha 64742-96-7	Inhalation	Rats	Not known.

Carcinogenicity:

Component	IARC	NTP	OSHA
Solvent naphtha (petroleum), light aromatic 64742-95-6	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed
Polyolefin alkylphenol HC1 alkylamine N/A	Not Listed	Not Listed	Not Listed
Heavy Aliphatic Solvent Naphtha 64742-96-7	Not Listed	Not Listed	Not Listed

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12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.
Waste Management: Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: Consumer Commodity
Hazard Class: ORM D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:
Proper Shipping Name: Not Regulated
Hazard Class: Not Applicable
Hazard Subclass: Not Applicable
UN No.: Not Applicable
Packing Group: Not Applicable
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
Solvent naptha (petroleum), light aromatic 64742-95-6	Not Listed	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	Listed.	Not Listed	Not Listed	Not Listed
Polyolefin alkylphenol HC1 alkylamine N/A	Not Listed	Not Listed	Not Listed	Not Listed
Heavy Aliphatic Solvent Naphtha 64742-96-7	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Immediate/Acute, Delayed/Chronic, Fire

State Regulations:

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Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Solvent naphtha (petroleum), light aromatic 64742-95-6	Not Listed	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Polyolefin alkylphenol HC1 alkylamine N/A	Not Listed	Not Listed	Not Listed	Not Listed
Heavy Aliphatic Solvent Naphtha 64742-96-7	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: One or more components of this product is not listed on the TSCA Inventory.
Canadian Inventory: One or more components of this product is not listed on the Canadian DSL or NDSL Inventory.

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes:
Disclaimer:

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.