

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Diesel Lubricity Improver
MSDS NO. 5004
Revision Date: 07/24/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Diesel Lubricity Improver
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

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	None Established	None Established	None Established	None Established
Ethyl benzene 100-41-4	0-9	100 ppm	Not Established	100 ppm	125 ppm
Heavy Aromatic Naphtha 64742-94-5	5-10	None Established	None Established	None Established	None Established
Xylene 1330-20-7	0-5	100 ppm	Not Known	100 ppm	150 ppm
Naphthalene 91-20-3	0-3	10 ppm	None Established	10 ppm	15 ppm

3. HAZARDS IDENTIFICATION

Emergency Overview: Danger: Harmful or fatal if liquid is aspirated into lungs. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. Combustible Liquid. Gross inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death. May irritate the skin. Possible redness and defatting may result from prolonged skin exposure to this material.

4. FIRST AID MEASURES

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.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. Pulmonary aspiration hazard if swallowed and/oil vomiting occurs - can enter lungs and cause damage.

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: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 105 - 135 F

Flash Point Method: Penski Martin

Flammable Limits in Air - Lower (%): 1%

Flammable Limits in Air - Upper (%): 7.2%

Autoignition Temperature °F(°C): 598 F

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Closed containers may explode if exposed to extreme heat.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Fumes and Smoke.

Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid breathing gas. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.

Trade Name: Johnsens Diesel Lubricity Improver **MSDS NO.** 5004

Spill Procedures: Wear protective equipment specified. Only trained and qualified personnel should handle any spilled or leaked product. Avoid all sources of ignition; heat, sparks and open flames. Remove sources of ignition. Increase area ventilation. Stop release at source. Dike area and contain. Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.

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. Store in cool place away from flame. Keep container closed when not in use. Avoid contact with skin and eyes. Use only in a well ventilated area. Do not reuse this container. Do not inhale vapors. Keep away from food and smoking materials. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Eyewash stations. Showers.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Avoid skin contact. Wear protective clothing and gloves.
Respiratory Protection: Wear a NIOSH approved respirator appropriate for airborne exposure at the point of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to light yellow liquid	pH Value:	Not Determined
Odor:	AROMATIC	Vapor Density (Air=1):	5.1
Vapor Pressure:	.2 - .95 PSI	Melting/Freezing Point:	-70 F
Boiling Point (°F):	270 F	Bulk Density at 20°C:	7.75 lb/gal
Solubility in Water:	INSOLUBLE	Evaporation Rate:	5.4 (BuAc=1)
Molecular Weight:	Mixture	Specific Gravity (H2O=1):	.92 - .94 @ 15.6 C
Viscosity:	<1cSt @ 100 F	Decomposition Temperature:	Not Known
VOC Content(%):	<50%		

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. High temperatures.
Materials to Avoid: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Aldehydes Smoke and Fumes.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	Inhalation	Rats	LC50 8.5 g/m3
Ethyl benzene 100-41-4	0-9	Oral	Rats	LD50 3500 mg/kg
Heavy Aromatic Naphtha 64742-94-5	5-10	Inhalation	Rats	LC50 590 mg/m3/4H
Xylene 1330-20-7	0-5	Inhalation	Rats	LC50 5000 ppm
Naphthalene 91-20-3	0-3	Inhalation	Rats	LC50 340 mg/m3/1H

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	0-9	Group 2B (Possible carcinogenic to humans)	Not Listed	Possible Select Carcinogens
Heavy Aromatic Naphtha 64742-94-5	5-10	Not Listed	Not Listed	Not Listed

Trade Name: Johnsens Diesel Lubricity Improver **MSDS NO.** 5004

Xylene 1330-20-7	0-5	Group 3 (not classifiable)	Not Listed	Not Listed
Naphthalene 91-20-3	0-3	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

This material is expected to be toxic to aquatic organisms. The ecotoxicity hazard is based on data for the components.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

Dispose of product in accordance with federal state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name: Petroleum Distillate, n.o.s., (Naphtha, Ethyl-Benzene, Xylene), limited quantity
Hazard Class: 3
Hazard Subclass: Not determined.
UN No.: UN1268
Packing Group: III
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	Not Listed	Not Listed	NA	NA
Ethyl benzene 100-41-4	0-9	Listed	Not Listed	1000 lbs.	NA
Heavy Aromatic Naphtha 64742-94-5	5-10	Not Listed	Not Listed	NA	NA
Xylene 1330-20-7	0-5	Listed	Not Listed	100	NA
Naphthalene 91-20-3	0-3	Listed	Not Listed	100 lbs	NA

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	Not Listed	Not Listed	Not Listed	Not Listed

Trade Name: Johnsens Diesel Lubricity Improver **MSDS NO.** 5004

Ethyl benzene 100-41-4	0-9	Not Listed	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	5-10	Not Listed	Not Listed	Not Listed	Not Listed
Xylene 1330-20-7	0-5	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	0-3	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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