

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Diesel Lubricity Improver
 MSDS NO. 5004
 Revision Date: 06/15/2005
 Date Printed: 12/30/2008

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

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	5-10	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	0-9	Not Listed	Not Listed	Not Listed
Xylene 1330-20-7	0-5	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	0-3	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Naphtha, Hydrotreated Heavy 64742-48-9	80-90	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	5-10	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	0-9	435 mg/m ³ 100 ppm	435 mg/m ³ 100 ppm	Not Listed
Xylene 1330-20-7	0-5	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	0-3	50 mg/m ³ 10 ppm	50 mg/m ³ 10 ppm	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Naphtha, Hydrotreated Heavy 64742-48-9	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	100 ppm	125 ppm	Not Listed
Xylene 1330-20-7	100 ppm	Not Listed	Not Listed
Naphthalene 91-20-3	10 ppm	15 ppm	Not Listed

3. HAZARDS IDENTIFICATION

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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.

HMIS Classification: Health: *3 Flammability: 3 Physical Hazard: 0
NFPA Rating: Health: 2 Flammability: 3 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek 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 shoes, 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 vapor. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.

Spill Procedures: Wear protective equipment specified. Only trained and qualified personel should handle any spilled or leaked product. Avoid all sources of ignition; heat, sparks and open flames.

Action to be taken if material is released or spilled: 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

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

Component	Route	Species	Dose
Naphtha, Hydrotreated Heavy 64742-48-9	Inhalation	Rats	LC50 8.5 g/m ³
Heavy Aromatic Naphtha 64742-94-5	Inhalation	Rats	LC50 590 mg/m ³ /4H
Ethyl benzene 100-41-4	Oral	Rats	LD50 3500 mg/kg
Xylene 1330-20-7	Inhalation	Rats	LC50 5000 ppm
Naphthalene 91-20-3	Inhalation	Rats	LC50 340 mg/m ³ /1H

Carcinogenicity:

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Component	IARC	NTP	OSHA
Naphtha, Hydrotreated Heavy 64742-48-9	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	Group 2B (Possible cardinogenic to humans)	Not Listed	Possible Select Carcinogens
Xylene 1330-20-7	Group 3 (not classifiable)	Not Listed	Not Listed
Naphthalene 91-20-3	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: 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.
Disposal Method: 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:

Component	SARA 313	SARA 302	TPQ	RQ
Naphtha, Hydrotreated Heavy 64742-48-9	Not Listed	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	Listed.	Not Listed	Not Listed	Not Listed
Xylene 1330-20-7	Listed.	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Listed.	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Not Determined.

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State Regulations:

Component	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	Not Listed	Not Listed	Not Listed	Not Listed
Heavy Aromatic Naphtha 64742-94-5	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene 100-41-4	Listed: June 11, 2004 Carcinogenic.	Not Listed	Not Listed	Not Listed
Xylene 1330-20-7	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Listed: April 19, 2002 Carcinogenic.	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Ethyl benzene 100-41-4	Substance no. 0851 Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430
Xylene 1330-20-7	Substance no. 2014
Naphthalene 91-20-3	Substance no. 1322 Substance no. 3006

U.S. TSCA: The components of this product are 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: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.
Disclaimer: 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.