



Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP DIESEL FUEL ADDITIVE
Product Use Additive
Product Code 0583
Date of issue 10/01/07 **Supersedes** 11/11/04

Emergency For MSDS Information:
Telephone Numbers Technical Services Group
 Zep Manufacturing of Canada
 Telephone: (780) 453-8100 (Business Hours 8:00-5:00)

For a Medical or Transportation Emergency:
 CANUTEC (24 Hours)
 (613) 996-6666 - Call Collect

Prepared by Technical Services Group
 Zep Manufacturing Co. of Canada
 11627 178th Street
 Edmonton, Alberta T5S 1N6

Printing date: 02/10/07

Date of Preparation : 10/01/07

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Toxicity Data			
ALIPHATIC NAPHTHA; ligroin; stoddard solvent	8052-41-3	40 - 70	Not available.	Not available.	Not available.	Not available.
HEAVY AROMATIC NAPHTHA; solvent naphtha (petroleum); heavy aromatics	64742-94-5	10 - 30	LC50	Rat.	Inhalation	3800 (4 hour (s))

Section 3. Hazards Identification

Acute Effects

Routes of Entry Dermal contact. Inhalation.

- Skin** Hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Medical Conditions Aggravated by Overexposure: Skin
- Eyes** Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Medical Conditions Aggravated by Overexposure: Eye
- Inhalation** Hazardous in case of inhalation (lung irritant). Material is irritating to mucous membranes and upper respiratory tract. Can cause central nervous system depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Medical Conditions Aggravated by Overexposure: Respiratory
- Ingestion** Aspiration hazard if swallowed- can enter lungs and cause damage.

Chronic Effects

The substance may be toxic to blood, kidneys, lungs, the reproductive system, liver, mucous membranes, brain, skin, central nervous system (CNS), eye, lens or cornea, nose/sinuses. Repeated or prolonged exposure to the substance can produce target organs damage. Defatting to the skin. Prolonged skin contact may cause dermatitis with drying and cracking of skin.

Additional information : See Toxicological Information (section 11)

Section 4. First Aid Measures

- Eye Contact** Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- Skin Contact** Wash affected area with soap or mild detergent and water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
- Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** Aspiration hazard if swallowed- can enter lungs and cause damage. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

- Flash Point** Closed cup: 60°C (140°F).(Tagliabue.) **Flammable Limits** LOWER: 1% UPPER: 6%
- Flammability** Combustible.
- Auto-ignition Temperature** Not determined.
- Fire-Fighting Procedures** Dry chemical, carbon dioxide, foam, water fog. Wear special protective clothing and positive pressure, self-contained breathing apparatus.
- Fire Hazard** Cool closed containers exposed to fire with water.
- Products of Combustion** Carbon Dioxide, Carbon Monoxide and other organic materials.
- Explosion hazard** Not determined.

Section 6. Accidental Release Measures

Spill Clean up Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Absorb with an inert material and put the spilled material in an appropriate waste disposal. To clean the floor and all objects contaminated by this material, use detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Keep away from sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Watch for accumulation in low confined areas. Wash contaminated clothing before reusing. Wash thoroughly after handling.

Storage Store and use away from heat, sparks, open flame, or any other ignition source. Keep container tightly closed and dry. Store between 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Safety glasses.

Hands and Body Neoprene gloves. Nitrile gloves. Natural rubber (latex) glove

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

Protective Clothing (Pictograms)**Exposure Limits**

Name of Hazardous Ingredients	CAS #	Exposure Limits
Aliphatic Naphtha	8052-41-3	OSHA PEL (United States). TWA: 100 ppm 8 hour(s). ACGIH TLV (United States). TWA: 100 ppm 8 hour(s).
Heavy Aromatic Naphtha	64742-94-5	OSHA PEL / VPPEL / ACGIH TLV (United States). TWA: 10 ppm 8 hour(s). OSHA VPPEL / ACGIH TLV (United States). STEL: 15 ppm 15 minute(s).
Xylene	1330-20-7	OSHA (United States). TWA: 100 ppm ACGIH (United States). STEL: 150 ppm
1,2,4-Trimethylbenzene	95-63-6	ACGIH TLV (United States). TWA: 25 ppm 8 hour(s). OSHA PEL (United States). TWA: 25 ppm 8 hour(s).
Naphthalene	91-20-3	ACGIH TLV (United States). TWA: 10 ppm 8 hour(s). STEL: 15 ppm 15 minute(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State Liquid.

pH Not applicable.

Boiling Point 179.4°C (354.9°F)

Freezing Point

Specific Gravity 0.85 (Water = 1)

Solubility Insoluble in cold water, hot water.

Color Amber. Clear.

Odor Hydrocarbon.

Vapor Pressure Not available.

Vapor Density >1 (Air = 1)

Evaporation Rate <1 compared to Butyl acetate.

VOC (Consumer) 82.0%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Reactivity Will not occur.

Hazardous Decomposition Products Carbon Dioxide, Carbon Monoxide and other organic materials.

Section 11. Toxicological Information


Carcinogenic Effects Not listed as carcinogen by OSHA, NTP or IARC

Reproductive Effects NO known EFFECT according to our database

Mutagenic Effects NO known EFFECT according to our database

Teratogenic Effects NO known EFFECT according to our database

Section 12. Ecological Information**Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations****Waste Information** Waste must be disposed according to applicable regulations. Consult your local or regional authorities. **Waste Stream****Section 14. Transport Information**

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
TDG Classification	1933	1993 Flammable liquid, n.o.s. (Naphtha):	TDG Class 3: Flammable liquid.	III		<u>Explosive Limit and Limited Quantity Index</u> 5

Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to the TDG regulations.

Section 15. Regulatory Information**WHMIS (Canada)** Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2B: Material causing other toxic effects (TOXIC).**Other Regulations** Not applicable

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the available information required by the CPR.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.