

Safety Data Sheet



TIG Distributing
P.O Box 535
Marshalltown, IA 50158
(641)752-7876

Section 1. Chemical Product and Company Identification

Product Name Fuel-Protect, Keep Clean Solution, for diesel injectors
Product Use Fuel Additive Mixture
Product Code TY26827, TY26828, TY26829, TY26830
Date of Issue 2/27/2015
Supersedes 7/8/10

Prepared For
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Section 2. Hazards Identification

Emergency Overview

Warning



Precautionary Statements:

- Do not get in eyes, skin or on clothing
- Wash hands thoroughly after handling
- Wear protective equipment as needed
- Get medical advice/attention if you feel unwell
- Avoid Breathing in dust/mist/fumes/vapors
- Keep away from ignition sources
- Keep Cool. Store in a well-ventilated area

Hazard Statements:

- Combustible liquid- Category 4 Hazard Class
- Harmful if absorbed through skin
- May cause skin irritation
- May cause respiratory irritation
- Causes eye irritation

Routes of Entry Dermal, Oral, and Inhalation

Acute Effects:

Eyes Causes eye irritation including, stinging tearing and redness
Skin Causes mild irritation. Prolonged or repeated exposure may cause dermatitis, cracked skin and redness.
Inhalation May cause respiratory tract irritation. Do not exceed exposure limits
Ingestion May cause gastrointestinal distress, cough, diarrhea, sore throat and vomiting

Section 3. Composition/Information on Ingredients

<u>Name of Hazardous Ingredients</u>	<u>CAS Number</u>	<u>% by Weight</u>
Distillates, petroleum, hydrotreated light	64742-47-8	10-20
Medium Aliphatic Solvent Naphtha	64742-88-7	<=60
2-Ethylhexanol	104-76-7	1-10

Section 4. First Aid Measures

- Eye Contact** Rinse cautiously with water for at least 15 minutes holding eyelids apart. Remove contact lenses, if used, and easy to do, and continue rinsing. If irritation persists, get medical attention.
- Skin Contact** Wash with soap and water. Immediately remove contaminated clothing. If irritation occurs, get medical attention. Launder contaminated clothing before reuse, or discard.
- Inhalation** Remove person to fresh air, if adverse effects are observed. If breathing is difficult or stopped, administer oxygen. Call local poison control center or physician
- Ingestion** Do not induce vomiting. Call local poison control center or physician. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)
(estimated rating)



- Hazardous Combustion Products** Carbon monoxides, aldehydes, hydrocarbons
- Extinguishing Media** Foam, dry chemical, CO₂
- Unsuitable Extinguishing Media** N/A
- Fire Fighting Procedures** Wear self-contained breathing apparatus. Use water to cool fire-exposed containers. Isolate material from fire immediately, if possible. Water may cause splattering.
- Unusual Fire and Explosion Hazards** Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating. Material creates a special hazard because it floats on water. A solid stream of water will spread the burning material.

Section 6. Accidental Release Measures

- Spill Clean Up** Evacuate all non-essential personnel. Personal Protective Equipment must be worn (see section 8). Eliminate all ignition sources if safe to do so. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material (see section sections 14 and 15 to determine regulatory reporting requirements for spills).

Section 7. Handling and Storage

- Handling** Keep away from potential sources of ignition. Keep containers closed when not in use. Wash hands thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind, or expose container to heat, flame, spark, or other sources of ignition. Avoid static buildup during transfer or pouring from one container to another.
- Storage** Do not store near potential sources of ignition. Store in a well-ventilated place. Keep cool. Carefully evaluate processes using this product at elevated temperatures. Keep away from oxidizers strong acids and bases.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
Petroleum Naphtha (CAS#64742-47-8)				200mg/m ³

Engineering Controls Use material in well-ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.



Personal Protective Equipment (PPE)

Eyes Safety glasses or chemical splash goggles
Body Rubber or neoprene gloves. Long sleeve t-shirt is recommended. Wear protective suit or apron when potential for contact exists. Do not wear rings, watches or other materials that could entrap material and cause skin reaction.
Respiratory Not normally required under adequate ventilation. Use a NIOSH approved respirator if PEL is exceeded

Section 9. Physical and Chemical Properties

Physical State	Liquid	Explosive Limits	Not Explosive
Color	Dark amber liquid	Vapor Pressure	Not determined
Odor	Mild hydrocarbon	Vapor Density	Not determined
Odor Threshold	Not determined	Relative Density	Not determined
pH	Not determined	Solubility	Insoluble
Freezing Point	Not determined	Partition Coefficient	Not determined
Boiling Point	Not determined	Auto-Ignition Temp.	Not determined
Flash Point	Not determined*	Decomposition Temp.	Not determined
Evaporation Rate	Not determined	Viscosity	Not determined
Flammability	Combustible liquid*	Specific Gravity	≈ 0.83 (24°C)

*The flash points of the raw materials are > 60°C (140°F) and ≤ 93°C (199.4°F). Category 4 Hazard Class Flammable Liquid

Section 10. Stability and Reactivity

Stability and Reactivity Stable
Incompatibility Strong oxidizing agents, strong acids and strong bases
Hazardous Polymerization Will not occur
Hazardous Decomposition Products CO, CO₂, aldehydes, and other products of incomplete combustion
Conditions to Avoid Elevated temperatures, ignition sources and incompatible materials.

Section 11. Toxicological Information

Routes of Entry Dermal, Oral, and Inhalation
Symptoms Irritation and reddening
Skin Irritant Yes-mild
Eye Irritant Yes-weak to moderate
Sensitizers Not determined
Mutagenicity No information found
Carcinogenicity None
Reproductive Toxicity No information found
Target Organs Kidneys, liver, CNS

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate (ATE) using the additive formula has been determined.

Acute Toxicity

Test	Results	Basis
Dermal	>2,000mg/kg	ATE determined : not classified
Oral	>2,000mg/kg	ATE determined : not classified
Inhalation	No data	

For Medium Aliphatic Solvent Naptha:
 Oral Toxicity- LD 50 Rat >5,000 mg/kg
 Dermal Toxicity-LD 50 Rabbit>3000 mg/kg
 Inhalation- LC 50 Rat>5500 ppm. 4h

Product may have harmful inhalation effects. May cause headaches, dizziness and drowsiness when inhaled and air concentration exceeds exposure limits. High air concentration may cause unconsciousness.

Section 12. Ecological Information

Environmental Effects Not determined. No data for mixture as a whole. May be hazardous to the aquatic environment.

Section 13. Disposal Considerations

Waste Information Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

Section 14. Transportation Information

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label Code
DOT Classification	UN1268	Petroleum Distillates, n.o.s.	3	PGIII	Combustible liquid

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Bulk quantity: 85,000kg

Intermediate quantity: 11,000kg

Non-bulk quantity: 400kg

Section 15. Regulatory Information

US Federal Regulations This product contains the following toxic chemicals subject to the reporting requirements of **Section 313** of the Emergency Planning and Community Right-To-Know Act of 1986 and of **40 CFR 372**:
None

State Regulations

California Prop. 65.- This product contains chemicals found in petroleum naptha (CAS# 64742-47-8) known to the state of California to cause cancer and or birth defects based on maximum impurity levels of components: <0.01ppm Methanol, < 0.05ppm ethylene oxide and < 0.012% propylene oxide .

New Jersey Right To Know Label Information- Medium Aliphatic Solvent Naptha CAS# 64742-88-7

Section 16. Other Information

Last Revision 2/27/15

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.