

## Enviro-Safe Fuel Treatment

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Enviro-Safe Fuel Treatment  
**SDS Number:** 2135, 2140, 2145  
**Revision Date:** 10/9/2024  
**Version:** 3.5  
**Product Description:** Anti-gel treatment for fuel systems.  
**Supplier Details:** Enviro-Safe Refrigerants, Inc.  
400 Hanna Drive  
Pekin, IL 61554  
**Phone:** 309-346-1110  
**Fax:** 309-346-1237  
**Email:** info@es-refrigerants.com  
**Internet:** www.es-refrigerants.com  
**Emergency:** CHEMTREC 1-800-424-9300

### 2 HAZARDS IDENTIFICATION

#### Classification of Substance

##### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 2  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Specific target organ toxicity - Single exposure, 3

#### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



##### GHS Hazard Statements:

H225 - Highly flammable liquid and vapour  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness

##### GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 - Wash skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.  
P337 + P313 - If eye irritation persists: Get medical advice/ attention.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

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### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

##### Chemical Ingredients

CAS#	%	Chemical Name
-40-7		Petroleum Distillates*
67-63-0		Isopropyl alcohol

#### 4 FIRST AID MEASURES

- Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
- 4.1. Description of First Aid Measures**
- First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
- 4.2. Most Important Symptoms and Effects, Both Acute and Delayed**
- Symptoms/Injuries:** Causes serious eye irritation. May be fatal if swallowed and enters airways. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. May cause genetic defects. Causes skin irritation. Harmful if inhaled. May cause drowsiness or dizziness.
- Symptoms/Injuries After Inhalation:** Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
- Symptoms/Injuries After Skin Contact:** May cause skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
- Symptoms/Injuries After Eye Contact:** Causes serious eye damage to organs through prolonged or repeated exposure. May cause genetic defects.
- Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways.
- 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed**
- If exposed or concerned, get medical advice and attention.

#### 5 FIRE FIGHTING MEASURES

- 5.1. Extinguishing Media**
- Suitable Extinguishing Media:** Water spray, fog, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), and dry chemical powder.
- Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.
- 5.2. Special Hazards Arising From the Substance or Mixture**
- Fire Hazard:** Highly flammable liquid and vapor. Vapors may travel to source of ignition and flash back.
- Explosion Hazard:** May form flammable/explosive vapor-air mixture.
- Reactivity:** Hazardous reactions will not occur under normal conditions.
- 5.3. Advice for Firefighters**
- Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.
- Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
- Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.
- Other Information:** Refer to Section 9 for flammability properties.

#### 6 ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures**
- General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- 6.1.1. For Non-emergency Personnel**
- Protective Equipment:** Use appropriate personal protection equipment (PPE).
- Emergency Procedures:** Evacuate unnecessary personnel.
- 6.1.2. For Emergency Responders**
- Protective Equipment:** Equip clean up crew with proper protection.
- Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.
- 6.2. Environmental Precautions**

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Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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### HANDLING AND STORAGE

#### Handling Precautions:

##### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.  
**Precautions for Safe Handling:** Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. No smoking  
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

#### Storage Requirements:

##### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. use explosion-proof electrical, ventilating, lighting equipment.  
**Storage Conditions:** Store in a dry, cool and well ventilated place. keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

##### 7.3. Specific End Use(s)

Anti-gel treatment for fuel systems.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Controls:

Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Personal Protective Equipment:

Petroleum Distillates\* cas#:(40-7)

Isopropyl alcohol cas#:(67-63-0)

Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact:** Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M)

**Splash contact:** Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 60 min Material tested:Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

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respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Petroleum Distillates\* cas#:(40-7)

USA ACGIH ACGIH TWA (mg/m3): 5 MG/M3 (TLV)

USA ACGIH ACGIH STEL (mg/m3): 10mg/m3

Isopropyl alcohol cas#:(67-63-0)

Components with workplace control parameters

TWA 200 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation

Central Nervous System impairment

Not classifiable as a human carcinogen

STEL 400 ppm USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation

Central Nervous System impairment

Not classifiable as a human carcinogen

TWA 400 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

980 mg/m3

STEL 500 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

1,225 mg/m3

TWA 400 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

980 mg/m3

The value in mg/m3 is approximate.

TWA 400 ppm USA. NIOSH Recommended Exposure Limits

980 mg/m3

ST 500 ppm USA. NIOSH Recommended Exposure Limits

1,225 mg/m3

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### PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Blue

**Physical State:** Liquid

**Odor Threshold:** No data available

**Specific Gravity or Density:** No data available

**Viscosity:** No data available

**Boiling Point:** No data available

**Partition Coefficient:** No data available

**Vapor Pressure:** No data available

**Potentia Hydrogenii:** No data available

**Evaporation Rate:** No data available

**Decompression**

**Temperature:**

**Odor:** No data available

**Solubility:** No data available

**Freezing or Melting Point:** No data available

**Flash Point:** No data available

**Vapor Density:** No data available

**Autoignition Temperature:** No data available

**UFL / LFL:** No data available

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### STABILITY AND REACTIVITY

<b>Reactivity:</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical Stability:</b>	Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
<b>Conditions to Avoid Identification:</b>	Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials. Open flame. Overheating. Heat. Sparks.
<b>Materials to Avoid Identification:</b>	Strong acids. Strong bases. Strong oxidizers.
<b>Hazardous Decomposition:</b>	Carbon oxides (CO, CO <sub>2</sub> ). May release flammable gases.
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.

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### TOXICOLOGICAL INFORMATION

Isopropyl alcohol cas#:(67-63-0)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,045 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity).

LC50 Inhalation - rat - 8 h - 16000 ppm

LD50 Dermal - rabbit - 12,800 mg/kg

no data available

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information: RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects.

Kidney - Irregularities - Based on Human Evidence

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### ECOLOGICAL INFORMATION

Petroleum Distillates\* cas#:(40-7)

Ecology - General - LC50 Fish 1: &gt; 5 g/l (LL50)

Persistence and Degradability: Inherently biodegradable.

Bioaccumulative Potential: The potential for bioaccumulation seems negligible based on data from other similar material and the biodegradability. It is unlikely to breakdown or remain in the air, but rather become absorbed to the soil and sediments and thus not be available to biota.

Mobility in Soil: Low solubility and floats and is expected to migrate from the water to the land. Expected to partition to sediment and wastewater solids.

Other Adverse Effects: No additional information available.

Isopropyl alcohol cas#:(67-63-0)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h.

other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - &gt; 2,000.00 mg/l - 72 h.

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EC50 - Algae - > 1,000.00 mg/l - 24 h  
 Persistence and degradability: no data available  
 Bioaccumulative potential: no data available  
 Mobility in soil: no data available  
 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
 Other adverse effects: no data available

### 13 DISPOSAL CONSIDERATIONS

Isopropyl alcohol cas#:(67-63-0)

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

### 14 TRANSPORT INFORMATION

#### 14.1. In Accordance with DOT

Consumer Commodity ORM-D

#### 14.2. In Accordance with IMDG

**Proper Shipping Name:** Flammable liquid, nos (Contains Isopropyl Alcohol and Petroleum Distillates)

**Hazard Class:** 3

**Identification Number:** UN1993

**Packing Group:** II

**Label Codes:** 3

**EmS-No. (Fire):** F-E

**EmS-No. (Spillage):** S-E

**Marine Pollutant:** Yes

#### 14.3. In Accordance with IATA

**Proper Shipping Name:** Flammable liquid, nos (Contains Isopropyl Alcohol and Petroleum Distillates)

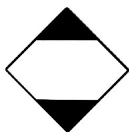
**Packing Group:** II

**Identification Number:** UN1993

**Hazard Class:** 3

**Label Codes:** 3

**ERG Code (IATA):** 3L



### 15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[--%] Petroleum Distillates\* (-40-7)

[--%] Isopropyl alcohol (67-63-0) MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TSCAACTV, TXAIR

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

NRC = Nationally Recognized Carcinogens

OSHA WAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

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TSCA = Toxic Substances Control Act  
TSCAACTV = TSCA Active Chemicals  
TXAIR = TX Air Contaminants with Health Effects Screening Level

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**OTHER INFORMATION**

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

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