

Enviro-Safe Power Steering Flush

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Enviro-Safe Power Steering Flush
SDS Number: 2170
Revision Date: 10/9/2024
Version: 3.5
Product Description: Cleaning the impurities from the power steering pump, steering assembly and rack assembly units.
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):
 Health, Carcinogenicity, 1 B

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H350 - May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
 P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients

CAS#	%	Chemical Name
-40-7		Distillates, petroleum, hydrotreated heavy naphthenic
64741-88-4		Distillates, petroleum, solvent-refined heavy paraffinic

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: Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.
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.

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4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: Harmful if inhaled. Suspected of causing cancer.

Symptoms/Injuries After Inhalation: Harmful if inhaled.

Symptoms/Injuries After Skin Contact: May cause skin irritation

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: May be fatal if swallowed and enters airways

Chronic Symptoms: Suspected of causing cancer.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

5 FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam, water spray, inert gas.

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: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

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.

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).

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

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

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.

7 HANDLING AND STORAGE

Handling Precautions:

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: Comply with applicable regulations.

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.

Incompatible Products: Heat sources. Oxidizers.

7.3. Specific End Use(s)

Cleaning the impurities from the power steering pump, steering assembly and rack assembly units.

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8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Distillates, petroleum, hydrotreated heavy naphthenic cas#:(-40-7)

Distillates, petroleum, solvent-refined heavy paraffinic cas#:(64741-88-4)

Personal protective equipment

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

Hand 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.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Distillates, petroleum, hydrotreated heavy naphthenic cas#:(-40-7)

USA ACGIH ACGIH TWA (mg/m3): 5 MG/M3 (TLV)
 USA ACGIH ACGIH STEL (mg/m3): 10mg/m3

Distillates, petroleum, solvent-refined heavy paraffinic cas#:(64741-88-4)

Components with workplace control parameters

TWA 5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z- 1Limits for Air Contaminants
 Upper Respiratory Tract irritation 2010 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen

TWA 5 mg/m3 USA. ACGIH Threshold Limit Values (TLV)
 Upper Respiratory Tract irritation 2010 Adoption Not classifiable as a human carcinogen
 TWA 5 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
 TWA 5 mg/m3 USA. NIOSH Recommended Exposure Limits
 ST 10 mg/m3 USA. NIOSH Recommended Exposure Limits

9	PHYSICAL AND CHEMICAL PROPERTIES
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<p>Appearance: No data available</p> <p>Physical State: Liquid</p> <p>Odor Threshold: No data available</p> <p>Specific Gravity or Density: No data available</p> <p>Viscosity: No data available</p> <p>Boiling Point: No data available</p> <p>Partition Coefficient: No data available</p> <p>Vapor Pressure: No data available</p> <p>Potentia Hydrogenii: No data available</p> <p>Evaporation Rate: No data available</p> <p>Decompression Temperature: No data available</p>	<p>Odor: No data available</p> <p>Solubility: No data available</p> <p>Freezing or Melting Point: No data available</p> <p>Flash Point: No data available</p> <p>Vapor Density: No data available</p> <p>Autoignition Temperature: No data available</p> <p>UFL / LFL: No data available</p>
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10 STABILITY AND REACTIVITY

Reactivity:	Hazardous reactions will not occur under normal conditions.
Chemical Stability:	Stable under recommended handling and storage conditions (see Section 7).
Conditions to Avoid Identification:	Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
Materials to Avoid Identification:	Strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition:	Carbon Oxides (CO, CO ₂).
Hazardous Polymerization:	Hazardous polymerization will not occur.

11 TOXICOLOGICAL INFORMATION

Distillates, petroleum, solvent-refined heavy paraffinic cas#:(64741-88-4)

Information on toxicological effects

Acute toxicity:

Oral LD50 no data available

Inhalation LC50

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

Possible human carcinogen

IARC: 1 - Group 1: Carcinogenic to humans (Vacuum pump oil)

NTP: Known to be human carcinogen The reference note has been added by TD based on the background information of the NTP. (Vacuum pump oil)

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

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: PY8040500

12 ECOLOGICAL INFORMATION

Distillates, petroleum, hydrotreated heavy naphthenic cas#:(-40-7)

Ecology - General -

LC50 Fish 1: > 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.

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Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

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13 DISPOSAL CONSIDERATIONS

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Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

15 REGULATORY INFORMATION

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

 [--%] Distillates, petroleum, hydrotreated heavy naphthenic (-40-7)

[--%] Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4) NJHS, TSCA, TSCAACTV
 This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

 NJHS = NJ Right-to-Know Hazardous Substances
 TSCA = Toxic Substances Control Act
 TSCAACTV = TSCA Active Chemicals

16 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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