Enviro-Safe Dye Direct Inject

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Enviro-Safe Dye Direct Inject
SDS Number: 2050DI
Revision Date: 10/9/2024
Version: 2.5
Product Description: To detect leaks in A/C systems

Supplier Details:
Enviro-Safe Refrigerants, Inc.
400 Hanna Dr.
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):
No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word:

GHS Hazard Pictograms:
No GHS pictograms indicated for this product

GHS Hazard Statements:
No GHS hazards statements indicated

GHS Precautionary Statements:
No GHS precautionary statements indicated

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients

CAS#	%	Chemical Name
587-98-4		Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt
-40-7		Proprietary

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 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if redness, pain, or irritation occurs.
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: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/Injuries After Inhalation: May cause respiratory irritation.
Symptoms/Injuries After Skin Contact: May cause skin irritation.
Symptoms/Injuries After Eye Contact: May cause eye irritation
Symptoms/injuries After Ingestion: Ingestion if likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

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

If you feel unwell, seek medical advice.

5 FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

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: 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. 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:

7.1. Precautions for Safe Handling

Precautions for Safe Handling: 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 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: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s): To detect leaks in A/C systems.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Appropriate 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 nationl/local regulations are observed.

Personal Protective Equipment:

Ester Oil (Proprietary)

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

Personal protective equipment

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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. Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested:Dermatril (Aldrich Z677272, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested:Dermatril (Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, 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 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.

Eye 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 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.

Ester Oil (Proprietary)

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

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	No data available		
Physical State:	Liquid	**Odor:**	No data available
Odor Threshold:	No data available	**Solubility:**	No data available
Specific Gravity or Density:	0.96 - 0.992 @ 20 °C (Ester Oils)	**Freezing or Melting Point:**	No data available
Viscosity:	No data available	**Flash Point:**	> 230 °C (446 °F) (Ester Oils)
Boiling Point:	> 200 °C (392 °F) (Ester Oils)	**Vapor Density:**	No data available
Partition Coefficient:	No data available	**Autoignition Temperature:**	No data available
Vapor Pressure:	No data available	**UFL / LFL:**	No data available
Potentia Hydrogenii:	No data available		
Evaporation Rate:	No data available		
Decompression Temperature:	No data available		

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 AvoIdentification:	Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials
Materials to AvoIdentification:	Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition:	Material does not decompose at ambient temperatures.
Hazardous Polymerization:	Hazardous polymerization will not occur.

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11 TOXICOLOGICAL INFORMATION

Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt cas#:(587-98-4)

Information on toxicological effects:

Acute toxicity:
Oral LD50 LD50 Oral - rat - 5,000 mg/kg
Inhalation LC50 no data available
Dermal LD50
Other information on acute toxicity LD50 Intraperitoneal - mouse - 1,000 mg/kg
LD50 Intravenous - mouse - 200 mg/kg
Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: May cause sensitization by skin contact.
Germ cell mutagenicity: Genotoxicity in vitro - Human - lymphocyte Mutation in mammalian somatic cells.
Genotoxicity in vitro - Human - leukocyte Cytogenetic analysis
Genotoxicity in vivo - mouse - Oral
Genotoxicity in vivo - mouse - Intraperitoneal Sister chromatid exchange

Carcinogenicity:
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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: Reproductive toxicity - rat - male:
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology,motility, and count). 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.
Synergistic effects: no data available
Additional Information: RTECS: DB7329500

12 ECOLOGICAL INFORMATION

Ester Oil (Proprietary)

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 biodgradability. It is unlikely to breakdown or remain in the air, but rather become absor ed 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

13 DISPOSAL CONSIDERATIONS

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Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

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

[--%] Benzenesulfonic acid, 3-[[4-(phenylamino)phenyl]azo]-, monosodium salt (587-98-4) TSCA, TSCAACTV

[--%] Proprietary (-40-7)
This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

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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