

Enviro-Safe Extreme 5 Cooling System Treatment

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Enviro-Safe Extreme 5 Cooling System Treatment
SDS Number: 2175 & 2180
Revision Date: 10/9/2024
Version: 3.5
Product Use: Restore the protective qualities of the radiator/coolant in the cooling system.
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
1344-09-8		Silicic acid, sodium salt
7732-18-5		Water

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move the victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Promptly flush skin with water until all chemical is removed. Remove contaminated clothing and wash before reuse.
Eye Contact: Flush with large amounts of water. Get immediate medical attention. Remove contact lenses if present and easy to do.
Ingestion: Call a POISON CENTER or doctor/physician, or get medical attention if you feel unwell.

5 FIRE FIGHTING MEASURES

Fire Hazard: negligible fire hazard.
Extinguishing Media: Use media appropriate for surrounding fire.
Fire Fighting: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Enviro-Safe Extreme 5 Cooling System Treatment

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). Dries to form glass film which can easily cut skin. Spilled material may cause a slipping hazard. Wear appropriate personal protective equipment recommended in Section 8.

6.2. Methods and Material for Containment and Cleaning Up:

For Containment: Flush spill area with water, if appropriate. Liquid material may be removed with a vacuum truck. Shovel dried residue into suitable container. Recycle or dispose according to regulations. See Section 13.

6.3 Environmental Precautions:

This material is alkaline and may raise the pH of surface waters with low buffering capacity. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

7 HANDLING AND STORAGE

Handling Precautions:

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapor, mist, or spray. Product shipping/handled hot can cause thermal burns. Use care when handling hot material. Do not eat, drink or smoke in areas where this material is used. Use appropriate personal protective equipment (PPE). See Section 8, Exposure Controls and Personal Protection, for additional information.

Storage Requirements:

Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances.

Conditions for Safe Storage, Including Any Incompatibilities

Can generate heat when mixed with acids. Avoid prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc because flammable hydrogen gas can be generated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage is probable.

Personal Protective Equipment:

Water cas#:(7732-18-5)

Personal protective equipment

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: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, 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.

Respiratory protection: No special protective equipment required.

Control of environmental exposure: Prevent product from entering drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to slightly hazy
Physical State: Liquid
Odor Threshold: No data available
Specific Gravity or Density: 1.01

Odor: Mild almond odor
Solubility: No data available
Freezing or Melting Point: 0 °C (32 °F)

Enviro-Safe Extreme 5 Cooling System Treatment

Viscosity: 25 - 2500 cP Boiling Point: 100 °C (212 °F) Partition Coefficient: No data available Vapor Pressure: No data available Potentia Hydrogenii: 11.4 - 12.9 Evaporation Rate: 2.14 Decompression Temperature: 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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10 STABILITY AND REACTIVITY

Reactivity:	Not reactive under normal temperatures and pressures.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid Identification:	Prolonged storage above 140° F (60° C)
Materials to Avoid Identification:	Can generate heat when mixed with acids. Avoid prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc because flammable hydrogen gas can be generated.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Water cas#:(7732-18-5)

Information on toxicological effects:

- Acute toxicity: no data available
- Inhalation: no data available
- Dermal: no data available
- 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:

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: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information: RTECS: ZC0110000

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

12 ECOLOGICAL INFORMATION

Water cas#:(7732-18-5)

Information on ecological effects:

- Toxicity: no data available
- Persistence and degradability: not applicable
- 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

Enviro-Safe Extreme 5 Cooling System Treatment

Water cas#:(7732-18-5)

Waste treatment methods

Product: Taking into account local regulations the product may be disposed of as waste water after neutralisation.

14	TRANSPORT INFORMATION
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Not regulated

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

 [--%] Silicic acid, sodium salt (1344-09-8) TSCA, TSCAACTV

[--%] Water (7732-18-5) 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

 TSCA = Toxic Substances Control Act
 TSCAACTV = TSCA Active Chemicals

16	OTHER INFORMATION
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