

Enviro-Safe Extreme 5 Cooling System Treatment**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: Enviro-Safe Extreme 5 Cooling System Treatment
Product Use: Restore the protective qualities of the radiator/coolant in the cooling system of your vehicle
Supplier Details: Enviro-Safe Refrigerants, Inc.
400 Margaret Street
Pekin, IL 61554

Emergency: 1-800-424-9300
Contact: Chemtrec
Phone: 309-346-1110
Fax: 309-346-1237
Email: envirosafe2000@hotmail.com
Web: www.es-refrigerants.com

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
No GHS classifications indicated

GHS Label elements, including precautionary statements

GHS Signal Word: **NONE**
No GHS pictograms indicated for this product

GHS Hazard Statements:
No GHS hazards statements indicated

GHS Precautionary Statements:
P102 - Keep out of reach of children.
P103 - Read label before use.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

CAS#	%	Chemical Name
7632-00-0	5-15%	Proprietary
7732-18-5	85-95%	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.
Ingestion: Do NOT induce vomiting. Immediately, call a POISON CENTER or doctor/physician.

5 FIRE FIGHTING MEASURES

Dry powder, foam, carbon dioxide. Wear self-contained breathing apparatus and other protective clothing.

Keep away from drains and ground water.

Report to appropriate local, state and federal agencies.

Pick up excess with inert absorbent material and place into separate waste container.

Storage Requirements:

Keep container closed until ready for use.

Keep away from feed and food products.

Store away from ignition sources.

Do not use a welder or cutting torch on or near container.

Do not store in temperatures above 130°F.

Product will freeze if stored in temperatures below 32°F.

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:

HMIS PP, C | Safety Glasses, Gloves, Apron

Proprietary (7632-00-0) [5-15%]

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: 0.11 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.

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.

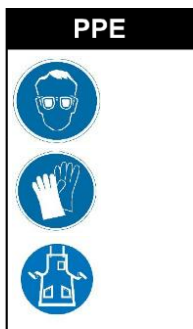
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Water (7732-18-5) [85-95%]

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.

Proprietary (7632-00-0) [5-15%]: no data available Water (7732-

18-5) [85-95%]: no data available

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to slightly hazy	Odor:	Mild almond odor
Physical State:	Liquid	Freezing/Melting Pt.:	0°C (32°F)
Spec Grav.	1.01		
/Density: Boiling	100°C (212°F)		
Point:	8.6		
pH:	2.14		
Evap. Rate:			

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STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Avoid sparks, open flame or any source of ignition.
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Polymerization:	Will not occur.

Proprietary (7632-00-0) [5-15%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 157.9 mg/kg

LD50 Oral - mouse - 175 mg/kg Remarks: Vascular: BP lowering not characterized in autonomic section. Vascular: Regional or general arteriolar or venous dilation.

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation:

Skin - rabbit Result: No skin irritation - 48 h (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 2A - Group 2A: Probably carcinogenic to humans (Sodium nitrite)

ACGIH: No component of this product presents 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 presents 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 presents 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: RA1225000

Headache, Nausea, Incoordination. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Liver - Irregularities - Based on Human Evidence

Water (7732-18-5) [85-95%]

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 sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product presents 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 presents 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 presents 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 presents 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.

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ECOLOGICAL INFORMATION

Proprietary (7632-00-0) [5-15%]

Information on ecological effects

Toxicity:

Toxicity to fish flow-through test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.94 - 1.92:

mg/l - 96.0 h

mortality NOEC - *Oncorhynchus mykiss* (rainbow trout) - 0.54 mg/l - 96.0 h

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: The methods for determining biodegradability are not applicable to inorganic substances.

Bio accumulative 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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Water (7732-18-5) [85-95%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: not applicable Bio accumulative 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

Proprietary (7632-00-0) [5-15%]

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. 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.

Water (7732-18-5) [85-95%]

Waste treatment methods

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

DOT:

Consumer commodity, orm-d



IATA:

Consumer commodity, orm-d
(1.3 gallons or less)



IMDG:

Consumer commodity, orm-d



Component (CAS#) [%] - CODES

Sodium nitrite (7632-00-0) [5-15%] CERCLA, CSWHS, MASS, PA, SARA313, TSCA Water (7732-18-5) [75-

95%] TSCA

Regulatory CODE Descriptions

CERCLA = Superfund cleanup substance

CSWHS = Clean Water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List PA = PA Right-To-Know

List of Hazardous Substances SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

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).

This information is given in good faith and based on our current knowledge of the product.

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