

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT Enviro-Tek Radiator Conditioner

MSDS DATE:12/12/09

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Radiator Conditioner
SYNONYMS: Coolant Conditioner
PRODUCT CODES:

MANUFACTURER: MMJ Marketing
DIVISION:
ADDRESS: 380 Wingo Heights Road Spartanburg , SC 29305
Unit # 5a
EMERGENCY PHONE: (864) 641-5478
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE: (864) 578-2720

PRODUCT USE:
PREPARED BY: Mark Saville

SECTION 1 NOTES: mark@envirotekworld.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization (preparation)
Additives Sum of ingredients:
corrosion preventing agent > 50 %

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-473-3	107-21-1	ethanediol, ethylene glycol	50 - 80 %	Xn R22
205-483-3	141-43-5 2-	aminoethanol, ethanolamine polymers, org. phosphorus compound	1 - 5 % 1 - 5 %	Xn, C R20/21/22-34 Xi R36/38

SECTION 3: HAZARDS IDENTIFICATION

Classification

Symbols : Harmful
R-phrases :
Harmful if swallowed

SECTION 4: FIRST AID MEASURES

General information

Take the injured person out of the danger area and lay him/her down.
Take off immediately all contaminated clothing

After inhalation

Move victim to fresh air. Instruct person to keep calm and warm.
In case of difficulties of breathing administer oxygen. Consult physician.

After contact with skin

After contact with skin, wash immediately with: water and soap.

After contact with eyes

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid.
Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water.
Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.
Do not induce vomiting. Consult physician.

Advice to doctor

Symptoms: Dizziness. Nausea. unconsciousness.
Nature of Hazard: Heart circulatory collapse.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons

High power water jet.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Contaminated fire-fighting water must be collected separately.

Contaminated fire-fighting water must not get into the sewerage network.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear personal protection equipment.

Provide adequate ventilation.

Remove from all sources of ignition.

Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

Environmental precautions

Do not empty into drains or the aquatic environment.

In cases of gas being released or leakage into waters, the ground or the drainage system the appropriate authorities must be informed.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Provide adequate ventilation.

SECTION 7: HANDLING AND STORAGE

7.1 Handling

Advice on safe handling

Keep container tightly closed in a cool, well-ventilated place.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking.

Concentrated vapors are heavier than air. Fumes may form explosive mixtures with air.

7.2 Storage

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Storage temperature: at below °C: 50 °C

Advice on storage compatibility

Should be stored separately from oxidizing agents.

Further information on storage conditions

Hygroscopic product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.2 Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

Wash hands when done working with material; at breaks, lunch, shift changes, etc.

Respiratory protection

Provide for good ventilation, when develop aerosols/mist.

In case of insufficient ventilation, wear suitable respiratory equipment.

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Hand protection

Tested protective gloves are to be worn:
CR (polychloroprenes, Chloroprene rubber). Butyl rubber.
Material thickness: 0,5 mm
penetration time: \geq 8 h

NBR (Nitrile rubber).
Material thickness: 0,35 mm
penetration time: \geq 8 h

Eye protection

Tightly sealed safety glasses.

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Physical state liquid
Color colorless, clear
Odour odourless

9.2 Important health, safety and environmental information

pH-Value (at 20 °C) :

Test method
9 - 10

Changes in the physical state

Density (at 20 °C) :
Water solubility :
at (20 °C)

1,09 g/cm³
easily soluble.

9.3 Other information

Ignition temperature

> 400 °C

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid

UV-solarization/sunlight.
Keep away from moisture.
Do not store at temperatures over: 50 °C
No decomposition when used as intended.

Materials to avoid

Oxidizing agents, strong.
acid, concentrated.
Alkalis (alkalis), concentrated.

Hazardous decomposition products

nitrogen oxides (NO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

Corrosive and irritant effects

In case of prolonged or frequently repeated skin contact: irritant.
Following eye contact: irritant.
After ingestion: Irritation and etching

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SECTION 12: ECOLOGICAL INFORMATION

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Ecotoxicity

fish toxicity:
Oncorhynchus mykiss LC50 > 18.500 mg/l 96h
Leuciscus idus LC50 > 10.000 mg/l 48h

Aquaticity
Daphnia EC50 > 10.000 mg/l 24h

Persistence and degradability

Product is partially biodegradable.

Bioaccumulative potential

No indication of bio-accumulation potential.

Additional information

Do not empty into drains or the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Advice on disposal

Do not dispose with household waste.
Arrange about the exact waste code with the local waste disposal expert.
Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Contaminated packaging

Container must be completely emptied.
Cleaned containers may be recycled.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

Remarks (land transport)

Not a hazardous material with respect to transportation regulations.

Inland waterways transport

Remarks (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

Marine transport

Remarks (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport

Remarks (air transport)

Not a hazardous material with respect to transportation regulations.

SECTION 15: REGULATORY INFORMATION

15.1 Labelling

Indication of danger

Xn – Harmful



Xn – Harmful

Hazardous component(s) to be indicated on label

ethanediol, ethylene glycol

R phrases

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S phrases

02 Keep out of the reach of children.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

15.2 National regulations

Water contaminating class 1 - slightly water contaminating

SECTION 16: OTHER INFORMATION

List of relevant R phrases

22 Harmful if swallowed.
34 Causes burns.
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
36/38 Irritating to eyes and skin.