

MSDS - Material Safety Data Sheet**Product Name: ENVIROLOGIC 146 HYDRAULIC FLUID (5 GALLONS)****MSDS No.: E014605****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:****Contact:** Robert Geer**Information Telephone Number:** 704-684--181 1**Emergency Contact:** RMPDC (877-740-5015)**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** ENVIROLOGIC 146 HYDRAULIC FLUID (5 GALLONS)**MSDS No.:** E014605**Issue Date:** 02/08/2011**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

Not Available

OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

Potential Health Effects**Route(s) of Entry:**

Eye, skin inhalation and ingestion

Health Hazards (Acute and Chronic):

None known

Signs and Symptoms:

None known

Medical Conditions Generally Aggravated by Exposure:

None known

Other Health Warnings:

None

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Not Available	Not Available	Not Available	

IV. First Aid Measures:**Emergency and First Aid Procedures:**

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.

Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult, get prompt medical attention.

Ingestion: Do not induce vomiting. Call Poison Control Center, physician, or hospital emergency room immediately.

Note to Physicians:

Treat symptomatically.

MSDS - Material Safety Data Sheet**Product Name: ENVIROLOGIC 146 HYDRAULIC FLUID (5 GALLONS)****MSDS No.: E014605****V. Fire Fighting Measures:****Suitable Extinguishing Media:**

Carbon dioxide or foam. Water can be used to cool and protect exposed material.

Unsuitable Extinguishing Media:

N/D

Products of Combustion:

Toxic fumes, gases or vapors may evolve on burning.

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes.

VI. Accidental Release Measures:**Personal Precautions:**

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an vacuum to recover material.

Other Information:

If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:**Handling Precautions:**

Use proper ventilation. Keep container closed when not in use. Wash thoroughly after handling and before eating. Empty containers contain product residue which may exhibit hazards of product.

Storage Precautions:

No special storage precautions are required.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Not Available	Not Available	Not Available	Not Available

Engineering Controls:

Use with adequate ventilation. Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.

Personal Protective Equipment:

Wear Safety glass and use nitrile or neoprene gloves. A long sleeve shirt is recommended.

IX. Physical and Chemical Properties:

Boiling Point: N/D

Boiling Range: N/D

Solubility In Water: Insoluble

Flash Point: > 500°F

Melting Point: N/D

Freezing Point: N/D

Evaporation Rate (Butyl Acetate = 1): N/D

Flash Point Method: COC

MSDS - Material Safety Data Sheet**Product Name: ENVIROLOGIC 146 HYDRAULIC FLUID (5 GALLONS)****MSDS No.: E014605****Odor Threshold:** N/D**Vapor Density (AIR = 1):** N/D**pH Range:** N/A**Decomposition Temp:** N/D**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 0.92**Other Information:** Viscosity: 46.0 Centistokes @ 40°C**Appearance and Odor:** Golden liquid with mild odor**Vapor Pressure (mm Hg.):** N/D**Partition Coefficient:** N/D**Auto-Ignition Temp:** N/D**Upper Explosive Limit:** N/D**X. Stability and Reactivity:****Stability:**

Stable

Conditions to Avoid:

See Incompatible materials below.

Incompatible Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

Oral Toxicity: LD50 (rats) is > 5000 mg/kg. Based on data from components or similar materials.

Eye Irritation: Not expected to cause eye irritation. Based on data from components or similar materials.

Skin Irritation: Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Dermal Toxicity: LD50 (rabbits) is > 2000 mg/kg. Based on data from components or similar materials.

Inhalation Toxicity: No data available to indicate product or components may be a toxic inhalation hazard.

Exposure Limits: Contains natural ester base fluid. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

XII. Ecological Information:Freshwater Fish Toxicity: Fathead minnow, 96h LC50, ppm : >10,000
EPA Test Method 797.1400Freshwater Invertebrates Toxicity: Daphnia magna, 48h, EC50, ppm: >10,000
EPA Test Method 797.1300Algae Toxicity: Algae EC50, ppm: 100 - 1000
EPA Test Method 797.1050

Bacteria Toxicity: Sludge respiration inhibition, EC50, ppm: >10,000

Environmental Fate: Product show a biodegradability of >60% as measure by
ASTM D5864 (Mod Sturm) test procedure.**XIII. Disposal Considerations:**

DISPOSAL: This container may be recycled in a recycling center when empty. Before offering for recycling, empty the can or bottle by using the product according to the label. If recycling is not available, wrap the empty container and discard in the trash. Do not dump into sewers, on the ground, or into any body of water. Dispose of unused product in accordance with all local, state government and federal laws and regulations

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XIV. Transport Information:

Shipping Name: Not DOT Regulated

DOT Hazard Class: Not Regula

DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available

Packing Group: Not Available

Transportation Information:

Not Available

XV. Regulatory Information:

SARA 313 Reportable Chemicals.
None

USA TSCA: All components of this material are listed on the US TSCA Inventory.

State RTK Chemicals:
None

EEC EINECS: All components are in compliance with the EC Seventh amendment
Directive 92/32/EEC.

JAPAN MITI: All components are in compliance with the Chemical Substances Control
Law of Japan.

AUSTRALIA: All components are in compliance with the chemical notification
requirements in Australia.

CANADA: All components are in compliance with the Canadian Environmental
Protection Act.

XVI. Other Information:

Chemical State: ☒ Liquid ☐ Gas ☐ Solid

Chemical Type: ☐ Pure ☒ Mixture

Hazard Category:

☐ Acute ☐ Chronic ☐ Fire
☐ Pressure ☐ Reactive



Additional Manufacturer Warnings:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established

N/D: Not Determined

N/A: Not Applicable

N/AV: Not Available

Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

1	Health
1	Flammability
0	Physical Hazard
A	Pers. Protection