

**MSDS - Material Safety Data Sheet****Product Name: PUNCTURE SEAL INSTANT TIRE REPAIR (UPC: 078698131535)****MSDS No.: M1114****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Contact:** Robert Geer**Address:** 600 RADIATOR ROAD**Information Telephone Number:** 704-684--181 1**City, ST Zip:** INDIAN TRAIL, NC 28079**Emergency Contact:** Rocky Mountain Poison and Drug Center**Country:****Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** PUNCTURE SEAL INSTANT TIRE REPAIR (UPC: 078698131535)**MSDS No.:** M1114**Issue Date:** 06/01/2010**Supersedes Date:** 03/18/2010**II. Hazards Identification:****EMERGENCY OVERVIEW**

Caution: Eye and Skin Irritant. Contents Under Pressure.

Level 1 Aerosol

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

Absorption, Inhalation, and Ingestion.

**Health Hazards (Acute and Chronic):**

See signs and symptoms below

**Signs and Symptoms:**

Eye Contact: Direct spray of vapors may be irritating or harmful to eyes.

Skin Contact: Product may cause irritation due to defatting of skin.

Inhalation: High concentration of vapors may irritate nose and throat and cause headaches and nausea.

Ingestion: Can cause irritation, gastric disturbances, nausea.

**Medical Conditions Generally Aggravated by Exposure:**

None known

**Other Health Warnings:**

None known

**Potential Environmental Effects**

Not Available

**III. Composition/Information on Ingredients:**

Chemical Name	CAS No.	% Range	Trade Secret
1,1,1,2, Tetrafluoroethane	811-97-2	10.0 - 30.0	
2-Butoxyethanol	111-76-2	10.0 - 30.0	
Ammonium hydroxide	1336-21-6	0.1 - 1.0	
Ethylene glycol	107-21-1	1.0 - 5.0	
Polyvinylacetate Latex	9003-20-7	3.0 - 7.0	

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### ***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: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

#### **Note to Physicians:**

N/A

### ***V. Fire Fighting Measures:***

#### **Suitable Extinguishing Media:**

Water Fog, Foam, Carbon Dioxide, Dry Chemical

#### **Unsuitable Extinguishing Media:**

N/D

#### **Products of Combustion:**

Combustion products from fire: products of carbon Oxides, Nitrogen Oxides, Halogen acids.

#### **Protection of Firefighters:**

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

### ***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:**

Neutralize remaining traces of material and flush with water followed by liberal covering with sodium bicarbonate. All clean-up material should be removed and placed in approved containers for disposal. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.

#### **Other Information:**

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed.

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.

### ***VII. Handling and Storage:***

#### **Handling Precautions:**

Handling: Use with adequate ventilation and proper protective equipment.

Do not use or store near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120° may cause container to vent, rupture, or burst.

#### **Storage Precautions:**

Store in cool, dry, well-ventilated area away from acids and oxidizing agents. Do not store above temperature of 120°F.

### ***VIII. Exposure Controls/Personal Protection:***

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<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits</b>
Ethylene glycol	50 ppm	100 mg/m <sup>3</sup>	Not Available
2-Butoxyethanol	25 ppm	25 ppm	Not Available
Ammonium hydroxide	50 ppm (TWA)	25 ppm	Not Available
1,1,1,2, Tetrafluoroethane	N/E	N/E	1000 ppm (TWA)
Polyvinylacetate Latex	Not Available	Not Available	Not Available

**Engineering Controls:**

See Section above for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

**Personal Protective Equipment:**

Use with adequate ventilation. For prolonged exposure wear protective safety glasses, gloves, and apron.

### **IX. Physical and Chemical Properties:**

**Boiling Point:** 212 F

**Boiling Range:** N/D

**Solubility In Water:** Soluble

**Flash Point:** None

**Odor Threshold:** N/D

**Vapor Density (AIR = 1):** >1

**pH Range:** 10.2 - 11.6

**Decomposition Temp:** N/A

**Lower Explosive Limit:** N/A

**Specific Gravity (H<sub>2</sub>O = 1):** 1.00

**Other Information:** VOC Content: 15.64%

**Melting Point:** N/A

**Freezing Point:** 31°F

**Evaporation Rate (Butyl Acetate = 1):** 0.2

**Flash Point Method:** TCC

**Appearance and Odor:** White milky liquid with slight ammonia odor

**Vapor Pressure (mm Hg.):** N/D

**Partition Coefficient:** N/D

**Auto-Ignition Temp:** N/A

**Upper Explosive Limit:** N/A

### **X. Stability and Reactivity:**

**Stability:**

Stable

**Conditions to Avoid:**

See incompatible materials

**Incompatible Materials:**

Strong acids and oxidizers

**Hazardous Decomposition Products:**

Combustion products from fire: products of carbon Oxides, Nitrogen Oxides, Halogen acids.

**Possibility of Hazardous Reactions:**

Will not occur

### **XI. Toxicological Information:**

N/D

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**XII. Ecological Information:**

N/D

**XIII. Disposal Considerations:**

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

**XIV. Transport Information:****Shipping Name:** Not Available**DOT Hazard Class:** Not Available**DOT Subsidiary Hazard Class:** Not Available**UN/NA#:** Not Available**Packing Group:** Not Available**Transportation Information:**

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for international and air shipping purposes.

ICAO/IATA (US)

Shipping Name: Aerosols

Class: 2.2

UN number: UN1950

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols

Class: 2.2

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.2

EmS: F-D, S-U

**XV. Regulatory Information:**

SARA 313 Reportable Chemicals.

Ethylene Glycol - 107-21-1

2-Butoxyethanol - 111-76-2

Ammonium Hydroxide - 1336-21-6

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

State RTK Chemicals:

Ethylene Glycol - 107-21-1

2-Butoxyethanol - 111-76-2

Ammonium Hydroxide - 1336-21-6

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**XVI. Other Information:**

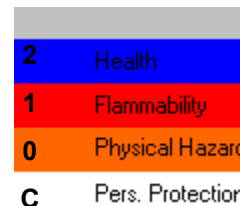
**Chemical State:**     Liquid     Gas     Solid  
**Chemical Type:**     Pure     Mixture  
**Hazard Category:**  
                           Acute     Chronic     Fire  
                           Pressure     Reactive



**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.