

MSDS - Material Safety Data Sheet**Product Name: BATTERY TERMINAL PROTECTOR**

MSDS No.: BTP4ES

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:** BATTERY TERMINAL PROTECTOR**MSDS No.:** BTP4ES**Issue Date:** 07/20/2010**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Extremely Flammable. Harmful or Fatal if Swallowed. Eye and Skin Irritant. Content Under Pressure.

Level 3 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):

Affects of overexposure are:

Acute: Liquid splashed on eyes and skin can result in discomfort, pain and irritation. Inhalation can cause irritation of the respiratory tract, dizziness, nausea, headache, loss of coordination and equilibrium, unconsciousness and even death in confined or poorly ventilated areas. Ingestion may result in irritation of the mouth and GI tract.

Prolonged exposure above the OSHA permissible exposure limit may complicate existing liver and kidney diseases.

Signs and Symptoms:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.

Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis..

Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause burns to mouth, throat & stomach.

Medical Conditions Generally Aggravated by Exposure:

None Known

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Butane	106-97-8	7.0 - 13.0	
Hydrocarbon Fluid	64742-47-8	10.0 - 30.0	
Propane	74-98-6	10.0 - 20.0	

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

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Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids and get prompt medical attention.

Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove 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:

N/D

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Under fire conditions may include carbon dioxide, carbon monoxide.

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:

Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof 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 with adequate ventilation and proper protective equipment.

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

KEEP AWAY FROM CHILDREN AND ANIMALS!

Storage Precautions:

Do not store near fire, sparks, or open flame or store above 120°F.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Butane	N/E	800 ppm	Not Available
Propane	N/E	1000 ppm	Not Available
Hydrocarbon Fluid	5 mg/m3	5 mg/m3	Not Available

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Engineering Controls:

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

Personal Protective Equipment:

For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: > 300°F

Boiling Range: Not Available

Solubility In Water: Insoluble

Flash Point: < 100°F

Odor Threshold: Not Available

Vapor Density (AIR = 1): N/D

pH Range: Not Available

Decomposition Temp: Not Available

Lower Explosive Limit: 1.8

Specific Gravity (H2O = 1): 0.85

Other Information: Can pressure: 68-72 psig.

VOC Content: 25% (Wt)

Melting Point: N/A

Freezing Point: Not Available

Evaporation Rate (Butyl Acetate = 1): > 1

Flash Point Method: TCC

Appearance and Odor: Off white to beige liquid with a hydrocarbon odor.

Vapor Pressure (mm Hg.): N/D

Partition Coefficient: Not Available

Auto-Ignition Temp: Not Available

Upper Explosive Limit: 9.5

X. Stability and Reactivity:

Stability:

Stable

Conditions to Avoid:

See Incompatible materials below.

Incompatible Materials:

Avoid contact with strong oxidizers

Hazardous Decomposition Products:

Under fire conditions may include carbon dioxide, carbon monoxide.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

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

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DOT Hazard Class: Not Available

DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available

Packing Group: Not Available

Transportation Information:

Shipping Name: Consumer Commodity

DOT Hazard Class: ORM-D

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)

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

EMS: F-D, S-U

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:

Propane 74-98-6

Butane 106-97-8

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:

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