

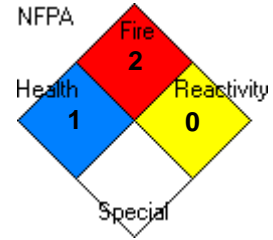
MSDS - Material Safety Data Sheet

Product Name: BATTERY TERMINAL CLEANER

MSDS No.: BTC4

I. Basic Information:

Manufacturer: RADIATOR SPECIALTY COMPANY
Address: 600 RADIATOR ROAD
City, ST Zip: INDIAN TRAIL, NC 28079
Emergency Contact: Rocky Mountain Poison Control Center
Emergency Telephone Number: 303-623-5716
Contact: Robert Geer
Information Telephone Number: 704-684-1811



Last Update: 06/15/2005 **Expiration Date:**

Chemical State: Liquid Gas Solid

Chemical Type: Pure Mixture

1	Health
2	Flammability
0	Reactivity
A	Pers. Protection

II. Ingredients:

Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
111-76-2	2-Butoxyethanol	1-5					X		25 ppm	25 ppm	
106-97-8	Butane	1-5							N/E	800 ppm	
74-98-6	Propane	1-3							N/E	1000 ppm	

III. Hazardous Identification:

Hazard Category:

Acute
 Chronic
 Fire
 Pressure
 Reactive

Hazardous Identification Information:
 Caution: Contents Under Pressure.
 Level 1 Aerosol

IV. First Aid Measures:

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: Causes irritation, narcosis, liver and kidney damage.

Medical Conditions Generally Aggravated by Exposure:
 Conditions aggravated by exposure: Liver and kidney disease, nervous system.

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MSDS No.: BTC4

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, give oxygen and get prompt medical attention.

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

Other Health Warnings:

None Known

V. Fire Fighting Measures:

Flash Point: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

F.P. Method:

Fire Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures:

Wear self-contained, positive pressure breathing apparatus and protective clothes. Keep containers cool using a water spray to avoid bursting. Use appropriate protective equipment

Unusual Fire and Explosion:

Exposure to temperatures above 120°F may cause containers to burst. Do not store near fire, sparks, or flame. Do not puncture or incinerate.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Use appropriate protective equipment. Ventilate area. Contain spill and then absorb spill with inert material or rags and scoop into a chemical waste container. All clean-up material should be removed and placed in approved containers for disposal.

VII. Handling and Storage:

Precautions to be Taken:

Use with adequate ventilation and proper protective equipment.

Do not use or store 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.

Other Precautions:

KEEP AWAY FROM CHILDREN AND ANIMALS!

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

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IX. Physical and Chemical Properties:

Boiling Point: 212°F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): <1

Vapor Pressure (mm Hg.): N/A

Specific Gravity (H2O = 1): 1.00000

Vapor Density (AIR = 1): N/A

Solubility In Water: Soluble

Appearance and Odor:
light foamy spray with slight solvent odor

Other Information: pH 7.5-8.5

Flammability per Flame Extension: Non-Flammable

VOC Content: 9.9% (Wt)

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizing agents

Decomposition/By Products:

Carbon Monoxide, Carbon Dioxide, and Hydrocarbons.

Hazardous Polymerization:

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 and state government laws and regulations.

XIV. Transport Information:

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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:

See Section 2 for SARA Reportable Chemicals.

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

XVI. Other Information:

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

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