

01/17/05

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Industrial Battery Cleaner
Product Number (s): 03176, 83176

Manufactured By: CRC Industries, Inc. (215) 674-4300
885 Louis Drive, Warminster, PA 18974
24-Hour Emergency Information: CHEMTREC (800) 424-9300

Section 2: Composition/Information on Ingredients

| Component | CAS NUMBER | ACGIH TLV | OSHA PEL | OTHER LIMITS | % |
|--------------------|------------|-----------|----------|--------------|------|
| Sodium Bicarbonate | 144-55-8 | NE | NE | NE | < 10 |
| Water | 7732-18-5 | NE | NE | NE | > 90 |
| 2-Butoxy Ethanol | 111-76-2 | 25 ppm | 25 ppm | (skin) | < 10 |
| Detergent | Mixture | NE | NE | NE | < 10 |
| Propane | 74-98-6 | NE | 1000 ppm | NE | < 10 |
| Isobutane | 75-28-5 | NE | NE | 1000 ppm | < 10 |

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Clear liquid, no odor.

Caution: Contents Under Pressure.

Potential Health Effects:
 Inhalation: NA
 Eyes: Irritation
 Skin: Irritation
 Ingestion: NA

Carcinogenicity: OSHA: No IARC: No NTP: No
Chronic Overexposure: NA
Medical Conditions Aggravated by Exposure: NA

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Give artificial respiration if necessary.

Eyes: Flush with large amounts of water for 15 minutes.

Skin: Remove contaminated clothing and wash area with soap and water.

Ingestion: Induce vomiting on the advice of a physician.

Section 5: Fire-Fighting Measures

Flashpoint: None Method: TCC LEL: ND UEL: ND
 Extinguishing Media: CO₂, foam
 Hazardous Combustion Products: NA
 Fire-fighting Instructions: Remove containers from fire area if possible. Use self-contained breathing apparatus for fire fighting. Aerosol cans may explode if heated above 120°F.

NFPA: Health: 1 Flammability: 0 Reactivity: 0
 HMIS: Health: 1 Flammability: 0 Reactivity: 0 PPE: B

Section 6: Accidental Release Measures

Spill/Leak Procedures: Usually not a problem with aerosols. Area should be ventilated. Absorbent should be used to pick up excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations.

Section 7: Handling and Storage

Handling Procedures: Store in a cool, dry area. Aerosol cans must be maintained below 120°F to prevent cans from exploding. NFPA rating of 4 is due to the propellant only.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

Section 9: Physical & Chemical Properties

| | | | |
|-------------------|-----------|-------------------------|------------------------|
| Physical State: | Liquid | Appearance & Odor: | Clear liquid, no odor. |
| Specific Gravity: | 1.04 | Boiling Point: | c.a. 212°F |
| Freezing Point: | c.a. 32°F | Vapor Pressure: | water |
| Evaporation Rate: | NA | Vapor Density (air = 1) | ND |
| pH: | NA | Solubility: | Soluble in water. |

Volatile Organic Compounds %: 8.0 g/L: 76.0000 lbs./gal: 0.63

Section 10: Stability and Reactivity

Stability: Stable Hazardous Polymerization: No
 Chemical Incompatibilities: Strong oxidizers.
 Materials to Avoid: NA
 Hazardous Decomposition Products: None

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

Section 12: Ecological Information

Ecotoxicity: No data available.
Environmental Fate: No data available for biodegradation.

Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules. Do not dump into sewers, on the ground or into any body of water.

Section 14: Transportation Information

Shipping Name: Consumer Commodity
Hazard Class: ORM-D UN Number: NA Packing Group: NA
Label: NA Placard: NA
Special Provisions: NA

Section 15: Regulatory Information

TSCA: All components are either listed under TSCA or are exempt.
SARA Title III: Section 311/312: Acute, Pressure
Section 313*: 2-Butoxy Ethanol
CERCLA/Superfund (RQ): NA
Extremely Hazardous Substances: No
California Prop 65: No
* See section 2 for percentage

Section 16: Additional Information

Prepared By: Michelle Milburn Date: February 21, 2005
Technical Information: (800) 521-3168 CRC #: 530B
This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS: Chemical Abstract Service NA: Not Applicable
ppm: Parts per Million ND: Not Determined
TCC: Tag Closed Cup NE: Not Established
LEL: Lower Explosive Limit g/L: grams per Liter
UEL: Upper Explosive Limit lbs./gal: pounds per gallon
PPE: Personal Protection Equipment RQ: Reportable Quantity
TOC: Tag Open Cup