



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Battery Cleaner

**Product Number (s):** 05023, 85023

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

## Section 2: Hazards Identification

### Emergency Overview

Appearance & Odor: Clear liquid, no odor

### CAUTION

Contents under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

### Potential Health Effects:

**EYE:** May cause mild irritation including redness and burning.

**SKIN:** Prolonged or repeated contact can cause irritation and defatting of the skin.

**INHALATION:** Inhalation of a small amount is not expected to cause health effects. Prolonged exposure may cause dizziness or throat irritation.

**INGESTION:** Ingestion of a small amount is not expected to cause health effects. Ingestion of a larger amount may cause irritation to gastrointestinal tract

**CHRONIC EFFECTS:** None known

**TARGET ORGANS:** None known

### Medical Conditions Aggravated by Exposure:

Pre-existing skin or eye disorders

See Section 11 for toxicology and carcinogenicity information on product ingredients.

**Section 3: Composition/Information on Ingredients**

COMPONENT	CAS NUMBER	% by Wt.
Water	7732-18-5	80 - 90
2-Butoxyethanol	111-76-2	2.9
Sodium bicarbonate	144-55-8	5 - 10
Detergent	various	< 1
Liquefied Petroleum Gas	68476-85-7	3 - 8

**Section 4: First Aid Measures**

**Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

**Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

**Ingestion:** Do not induce vomiting. Call a physician.

*Note to Physicians:* This product contains 2-Butoxyethanol which, if ingested in significant quantities, may result in red blood cell hemolysis.

**Section 5: Fire-Fighting Measures**

Flammable Properties: This product is non-flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6) ).

Flash Point:	None	Upper Explosive Limit:	ND
Autoignition Temperature:	None	Lower Explosive Limit:	ND

**Suitable Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire.

**Products of Combustion:** None

**Protection of Fire-Fighters:** Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

**Section 6: Accidental Release Measures**

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

**Section 7: Handling and Storage**

Handling Procedures: Use with adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. Do not expose aerosol containers to heat or flame. Do not incinerate container.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: I

**Section 8: Exposure Controls/Personal Protection**

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Water	NE	NE	NE	NE	NE		
2-Butoxyethanol	50 (s)	NE	20	NE	NE		ppm
Sodium bicarbonate	NE	NE	NE	NE	NE		
Detergent	NE	NE	NE	NE	NE		
Liquefied Petroleum Gas	1000	NE	1000	NE	NE		ppm
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile. Also use full protective clothing if there is prolonged or repeated contact of liquid with skin.

**Section 9: Physical and Chemical Properties**

Physical State: liquid  
 Color: clear  
 Odor: no odor  
 Specific Gravity: 1.04  
 Initial Boiling Point: ~ 212 F  
 Freezing Point: ~ 32 F  
 Vapor Pressure: ND  
 Vapor Density: > 1 (air = 1)  
 Evaporation Rate: < 1 (ether = 1)  
 Solubility: soluble in water  
 pH: 8.5  
 Volatile Organic Compounds: wt %: 2.9                      g/L: 30.16                      lbs./gal: 0.25

**Section 10: Stability and Reactivity**

Stability: Stable  
 Conditions to Avoid: Keep away from heat, direct sunlight, open flames or sparks. Dropping of containers may cause bursting.  
 Incompatible Materials: Strong oxidizers  
 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide  
 Possibility of Hazardous Reactions: No

**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**ACUTE EFFECTS**

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
2-Butoxyethanol	LC50	450 ppm/4H	Inhalation	Rat
2-Butoxyethanol	LD50	470 mg/kg	Oral	Rat
2-Butoxyethanol	LD50	220 mg/kg	Dermal	Rabbit

**CHRONIC EFFECTS**

**Carcinogenicity:**

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: No information

Other: No information

---

---

**Section 12: Ecological Information**

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: 2-Butoxyethanol 96 Hr LC50, Bluegill sunfish: 1490 mg/L  
24 Hr LC50, daphnia: 1720 mg/L  
Persistence / Degradability: No information  
Bioaccumulation / Accumulation: No information  
Mobility in Environment: No information

---

---

**Section 13: Disposal Considerations**

Disposal: The liquid product is not a RCRA hazardous waste. Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled or discarded.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

---

---

**Section 14: Transport Information**

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

---

---

**Section 15: Regulatory Information**

**U.S. Federal**

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard No  
Reactive Hazard No  
Release of Pressure Yes  
Acute Health Hazard Yes  
Chronic Health Hazard No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
2-Butoxyethanol (glycol ethers): 2.9%

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

**State Regulations**

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

NONE

State Right to Know:

New Jersey: 111-76-2, 68476-86-8  
Pennsylvania: 111-76-2, 68476-86-8  
Massachusetts: 111-76-2, 68476-86-8  
Rhode Island : 111-76-2, 68476-86-8

**Additional Regulatory Information:** None

---

**Section 16: Other Information**

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

Prepared By: Michelle Rudnick  
CRC #: 530B  
Revision Date: 12/15/2005

Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. 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  
PMCC: Pensky-Martens Closed Cup g/L: grams per Liter  
PPE: Personal Protection Equipment lbs./gal: pounds per gallon  
TWA: Time Weighted Average STEL: Short Term Exposure Limit  
OSHA: Occupational Safety and Health Administration  
ACGIH American Association of Governmental Industrial Hygienists  
NIOSH National Institute of Occupational Safety & Health