Section 1: Product & Company Identification

Product Name: Battery Cleaner (aerosol)

Product Number (s): 03176, 83176

Product Use: Battery Cleaner

Manufacturer / Supplier Contact Information:

<u>In United States</u>: <u>In Canada</u>: <u>In Mexico</u>:

CRC Industries, Inc.

CRC Canada Co.

CRC Industries Mexico

SES Louis Drive

CRC Industries Mexico

Av. Benito Juárez 4055 G

Warminster, PA 18974 Mississauga, Ontario L5S 1R2 Colonia Orquídea

<u>www.crcindustries.com</u> <u>www.crc-canada.ca</u> San Luís Potosí, SLP CP 78394 1-215-674-4300(General) 1-905-670-2291 <u>www.crc-mexico.com</u>

1-215-674-4300 (General) (800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

24-Hr Emergency - CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

52-444-824-1666

CAUTION: Contents Under Pressure.

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

Appearance & Odor: Clear liquid, no odor

Potential Health Effects:

ACUTE 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	68476-86-9	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

<u>Flammable Properties</u>: This product is non-flammable in accordance with aerosol flammability definitions.

(See 16 CFR 1500.3(c)(6)).

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

Fire and Explosion Data:

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

Products of Combustion: None

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode.

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. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product

use instructions, please see the product label.

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:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
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							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally

preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. 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. Air monitoring is

needed to determine actual employee exposure levels. Use a NIOSH-approved self-contained

breathing apparatus in confined spaces 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
Odor Threshold: ND
Specific Gravity: 1.04
Initial Boiling Point: ~ 212F
Freezing Point: ~ 32F
Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: slow Solubility: soluble in water

Coefficient of water/oil distribution: ND

pH: 8.5

Volatile Organic Compounds: wt %: 7.9 g/L: 82.16 lbs./gal: 0.68

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 Toxicity:

<u>Component</u>	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Water	> 90 mL/kg	No data	No data
2-Butoxyethanol	470 mg/kg	220 mg/kg	450 ppm/4H
Sodium bicarbonate	4220 mg/kg	No data	No data
Detergent	3000 mg/kg	4400 mg/kg	No data
Liquefied Petroleum Gas	No data	No data	No data

Chronic Toxicity:

	OSHA	IARC	NTP		
<u>Component</u>	Carcinogen	Carcinogen	Carcinogen	<u>Irritant</u>	<u>Sensitizer</u>
Water	No	No	No	No	No
2-Butoxyethanol	No	No	No	E (severe) /	No
				S (mild) /	
				R (mild)	
Sodium bicarbonate	No	No	No	No	No
Detergent	No	No	No	E (severe) /	No
				Se (mild)	
Liquefied Petroleum Gas	No	No	No	No	No

E – Eye S – Skin R - Respiratory

Reproductive Toxicity: No information available Teratogenicity: No information available

Mutagenicity: No information available Synergistic Effects: No information available

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:
Bioaccumulation / Accumulation:
Mobility in Environment:

No information available
No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is not a RCRA hazardous waste. Pressurized containers are a

D003 reactive waste. (See 40 CFR Part 261.20 – 261.33)

Empty aerosol containers may be recycled.

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

Section 14: Transport Information

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

ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.2, Limited Quantity

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

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

U.S. State Regulations:

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

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm:

None

Consumer Products VOC Regulations: This product is not regulated

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

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, D1A, D1B, D2B

<u>Canadian DSL Inventory</u>: All ingredients are either listed on the DSL Inventory or are exempt.

European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the

Council of 27 January 2003. This product does not contain any of the restricted substances as

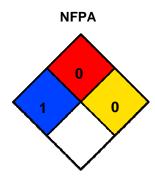
listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)		
Health:	1	
Flammability:	0	
Reactivity:	0	
PPE:	В	

Ratings range from 0 (no hazard) to 4 (severe hazard)



Prepared By: Michelle Rudnick

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Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products

Regulations.

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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List

g/L: grams per Liter

HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organizationlbs./gal: pounds per gallonLC: Lethal Concentration

LD: Lethal Dose

NA: Not Applicable ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit

TCC: Tag Closed Cup
TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information

System