CRC MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Battery Cleaner with Indicator (aerosol)

Product Number (s): 05023

Product Use: Battery Cleaner

Manufacturer / Supplier Contact Information:

In United States: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 <u>www.crcindustries.com</u> 1-215-674-4300(General) (800) 521-3168 (Technical) (800) 272-4620 (Customer Service) In Canada: CRC Canada Co. 2-1246 Lorimar Drive Mississauga, Ontario L5S 1R2 <u>www.crc-canada.ca</u> 1-905-670-2291 In Mexico: CRC Industries Mexico Av. Benito Juárez 4055 G Colonia Orquídea San Luís Potosí, SLP CP 78394 www.crc-mexico.com 52-444-824-1666

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

Section 2: Hazards Identification

Emergency Overview

CAUTION: Contents Under Pressure. Appearance & Odor: Yellow foam, 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 distorders

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	127087-87-0 / 68412-54-4	< 1
Liquefied Petroleum Gas	68476-86-8	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 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

	his product is non-flammable See 16 CFR 1500.3(c)(6)).	in accordance with aeroso	ol flammability definitions.
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.

Product Name: Battery Cleaner with Indicator (aerosol) Product Number (s): 05023

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 / 49°C to prevent cans from rupturing.

Aerosol Storage Level: I

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OS	SHA	AC	GIH	0	THER	
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) – ceilin	g (s) –	- skin	(v) – vaca	ited	

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. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a 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: yellow foamy		
Odor: no odor		
Odor Threshold: ND		
Specific Gravity: 1.04		
Initial Boiling Point: ~ 212°F / 100°C		
Freezing Point: ~ 32°F / 0°C		
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: <u>wt %</u> : 7.9	<u>g/L</u> : 82.16	<u>lbs./gal:</u> 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	<u>Carcinogen</u>	<u>Irritant</u>	Sensitizer
Water	No	No	No	No	No
2-Butoxyethanol	No	No	No	E (severe) / S (mild) / R (mild)	No
Sodium bicarbonate	No	No	No	None	No
Detergent	No	No	No	E (severe) / S (mild)	No
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-Butoxyethand	ol 96 Hr LC50, Bluegill sunfish: 1490 mg/L
		24 Hr LC50, daphnia: 1720 mg/L
Persistence / Degr	adability:	No information available
Bioaccumulation /	Accumulation:	No information available
Mobility in Environ	ment:	No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is not a RCRA hazardous 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): UN1950, Aerosols, non-flammable, 2.2, Limited Quantity**

ICAO/IATA (air): UN1950, Aerosols, non-flammable, 2.2, Limited Quantity

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

Special Provisions:**This product can be classified and labeled as 'Consumer Commodity, ORM-D' for domestic
ground shipping until December 31, 2020.
If shipping as limited quantity by ground, note that shipping papers are not required.

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.

<u>Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)</u>: 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 Reauthori: Section 302 Extremely Hazardo			
Section 311/312 Hazard Catego	ries:	Fire Hazard Reactive Hazard Release of Pressure Acute Health Hazard Chronic Health Hazard	No No Yes No
Section 313 Toxic Chemicals:	of Section 1986 and		substances subject to the reporting requirements erfund Amendments and Reauthorization Act of 2.9%

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

<u>Occupational Safety and Health Administration (OSHA)</u>: This product is regulated under the Hazard Communication Standard.

U.S. State Regulations:

<u>California Safe Drinking Water and Toxic Enforcement Act (Prop 65)</u>: This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

<u>Consumer Products VOC Regulations</u>: 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:

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

WHMIS Hazard Class: A, D2B

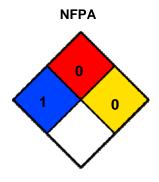
European Union Regulations:

<u>RoHS Compliance</u>: 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 RudnickCRC #:530CRevision Date:04/28/2015

Changes since last revision: Removed product number

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.

- 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 Organization
- lbs./gal: pounds per gallon
- LC: Lethal Concentration
- LD: Lethal Dose

NA: ND:	Not Applicable Not Determined
	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
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