

SAFETY DATA SHEET

1. Identification

Product identifier	Battery Cleaner with Acid Indicator		
Other means of identification			
Product Code	No. 75097 (Item# 1006340)		
Recommended use	Battery cleaner		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	r/Distributor information		
Manufactured or sold by:			
Company name	CRC Canada Co.		
Address	2-1246 Lorimar Drive		
	Mississauga, Ontario L5S 1R2		
	Canada		
Telephone			
General Information	905-670-2291		
24-Hour Emergency	800-424-9300 (Canada)		
(CHEMTREC)	703-527-3887 (International)		
Website	www.crc-canada.ca		
E-mail	Support.CA@crcindustries.com		
2. Hazard(s) identification	n		
Physical hazards	Gases under pressure Liquefied gas		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	Contains gas under pressure; may explode if heated.		
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Protect from sunlight. Store in a well-ventilated place.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Other hazards	None known.		
3 Composition/informati	on on ingredients		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	80 - 100
liquefied petroleum gas		68476-86-8	3 - 7
2-butoxyethanol		111-76-2	1 - 5

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 1 Aerosol.
including any incompatibilities	Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

cupational exposure limits				
US. ACGIH Threshold Limit V Components	/alues Type	9	Va	lue
2-butoxyethanol (CAS 111-76-2)	TWA	λ	20	ppm
Canada. Alberta OELs (Occu Components	pational Health & st Type	-		lue
2-butoxyethanol (CAS 111-76-2)	TWA	٨	97	mg/m3
111702)			20	ppm
		Exposure Limits for	or Chemical Su	bstances, Occupational Health and
Safety Regulation 296/97, as Components	amended) Type	9	Va	lue
2-butoxyethanol (CAS 111-76-2)	TWA	٨	20	ppm
Canada. Manitoba OELs (Reg	g. 217/2006, The W	orkplace Safety An	d Health Act)	
Components	Туро	9	Va	lue
2-butoxyethanol (CAS 111-76-2)	TWA	A	20	ppm
Canada. Ontario OELs. (Cont Components	rol of Exposure to Type	-		lue
2-butoxyethanol (CAS 111-76-2)	TWA	λ	20	ppm
Canada. Quebec OELs. (Minis Components	stry of Labor - Reg Type			the Work Environment) lue
2-butoxyethanol (CAS 111-76-2)	TWA	λ	97	mg/m3
			20	ppm
ological limit values				
ACGIH Biological Exposure I Components Va	naices ilue	Determinant	Specimen	Sampling Time
-	0 mg/g	Butoxyacetic acid (BAA),	Creatinine in urine	*
* E		with hydrolysis		
* - For sampling details, please			ir ohongoo nor h	our) should be used. Ventilation rates
propriate engineering ntrols	should be matched or other engineerin	to conditions. If app g controls to mainta	licable, use pro n airborne level	nour) should be used. Ventilation rates cess enclosures, local exhaust ventilation s below recommended exposure limits. I borne levels to an acceptable level.
dividual protection measures, s				
Eye/face protection	Wear safety glasse	s with side shields (or goggles).	
Skin protection Hand protection	Wear protective glo	oves such as: Nitrile.		
Other	Wear appropriate of	hemical resistant cl	othing.	
Respiratory protection		artridge respirator w	ith an organic va	xceeds the applicable exposure limits, us apor cartridge. Use a self-contained encies. Air monitoring is needed to
	breathing apparatu	mployee exposure le	evels.	
Thermal hazards	breathing apparatu determine actual e			cessary.

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Clear.
Odor	Odorless.
Odor threshold	Not available.
рН	8.5
Melting point/freezing point	-103 °F (-75 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	None (Tag Closed Cup)
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	10.6 % estimated
Vapor pressure	266.4 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	1.01
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	446 °F (230 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	94.2 % estimated
10. Stability and reactivity	1
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Aldehydes. Ketones. Organic acids.
11 Toxicological informa	tion

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological eff	ects	
Acute toxicity	Not known.	
Components	Species	Test Results
2-butoxyethanol (CAS 111-76-2)		
<u>Acute</u>		
Oral		
LD50	Rat	1300 mg/kg
* Estimates for product may b	be based on additional compo	onent data not shown.
Skin corrosion/irritation	Prolonged skin contact ma	ay cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes m	ay cause temporary irritation.
Respiratory or skin sensitizatio	n	
Canada - Alberta OELs: Irri	tant	
2-butoxyethanol (CAS 12	11-76-2)	Irritant
Respiratory sensitization	Not a respiratory sensitize	r.
Skin sensitization	This product is not expected	ed to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity		
IARC Monographs. Overall	Evaluation of Carcinogenic	sity
2-butoxyethanol (CAS 12	11-76-2)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	This product is not expected	ed to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May be harmful if absorbe	d through skin. Prolonged inhalation may be harmful.
	2-Butoxy ethanol may be a prolonged. These effects	absorbed through the skin in toxic amounts if contact is repeated and have not been observed in humans.

12. Ecological information

otoxicity			zardous. However, this does not exclude the armful or damaging effect on the environment.
Components		Species	Test Results
2-butoxyethanol (CAS	111-76-2)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1550 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	>= 1000 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)		
2-butoxyethanol	0.81, log Pow	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal of waste from residues / unused products	Contents under pressure. Do not puncture, incinerate or crush. Empty container can be recycled. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

IDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, non-flammable, Limited Quantity
Transport hazard class(es)	
Class	2.2
Subsidiary risk	
Packing group	Not applicable.
Environmental hazards	No.
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.
Special provisions	80
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, Limited Quantity
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2L
Special precautions for use Other information	r Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, Limited Quantity
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for use	r Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed.

Precursor Control Regulation	nns	
Not regulated.		
International regulations		
Stockholm Convention		
Not applicable.		
Rotterdam Convention		
Not applicable.		
Kyoto protocol		
Not applicable.		
Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
International Inventories		
		-
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date Revision date Version # Further information	03-21-2017 10-13-2017 02 CRC # 530C/1002544
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Revision Information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Composition/information on ingredients: Component information Other information: Further information