



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Battery Cleaner with Acid Indicator - 311 g

**Other means of identification**  
**Product Code** No. 75097 (Item# 1006340)

**Recommended use** Battery cleaner

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**  
**Manufactured or sold by:**

**Company name** CRC Canada Co.  
**Address** 83 Galaxy Blvd  
Unit 35 - 37  
Toronto, ON M9W 5X6  
Canada

**Telephone**  
**General Information** 416-847-7750  
**24-Hour Emergency (CHEMTREC)** 800-424-9300 (Canada)  
**Website** www.crc-canada.ca  
**E-mail** Support.CA@crcindustries.com

## 2. Hazard identification

**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.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name   | Common name and synonyms | CAS number | %        |
|-----------------|--------------------------|------------|----------|
| water           |                          | 7732-18-5  | 80 - 100 |
| 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.

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#### 4. First-aid measures

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

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#### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |
| <b>Fire fighting equipment/instructions</b>                          | 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. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| <b>General fire hazards</b>  | Contents under pressure. Pressurized container may rupture when exposed to heat or flame.   |

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#### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | 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. |
| <b>Methods and materials for containment and cleaning up</b>               | 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.<br><br>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.  |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

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#### 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | 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. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Level 1 Aerosol.<br><br>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).   |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                     | Type | Value  |
|--------------------------------|------|--------|
| 2-butoxyethanol (CAS 111-76-2) | TWA  | 20 ppm |

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                     | Type | Value                |
|--------------------------------|------|----------------------|
| 2-butoxyethanol (CAS 111-76-2) | TWA  | 97 mg/m <sup>3</sup> |
|                                |      | 20 ppm               |

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                     | Type | Value  |
|--------------------------------|------|--------|
| 2-butoxyethanol (CAS 111-76-2) | TWA  | 20 ppm |

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components                     | Type | Value  |
|--------------------------------|------|--------|
| 2-butoxyethanol (CAS 111-76-2) | TWA  | 20 ppm |

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                     | Type | Value  |
|--------------------------------|------|--------|
| 2-butoxyethanol (CAS 111-76-2) | TWA  | 20 ppm |

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components                     | Type | Value                |
|--------------------------------|------|----------------------|
| 2-butoxyethanol (CAS 111-76-2) | TWA  | 97 mg/m <sup>3</sup> |
|                                |      | 20 ppm               |

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

| Components                     | Type      | Value  |
|--------------------------------|-----------|--------|
| 2-butoxyethanol (CAS 111-76-2) | 15 minute | 30 ppm |
|                                | 8 hour    | 20 ppm |

### Biological limit values

#### ACGIH Biological Exposure Indices

| Components                     | Value    | Determinant                              | Specimen            | Sampling Time |
|--------------------------------|----------|--|---------------------|---------------|
| 2-butoxyethanol (CAS 111-76-2) | 200 mg/g | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | *             |

\* - For sampling details, please see the source document.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear protective gloves such as: Nitrile.

**Other** Wear appropriate chemical resistant clothing.

|                                       |  |
|---------------------------------------|--|
| <b>Respiratory protection</b>         | If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels. |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  |

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## 9. Physical and chemical properties

### Appearance

|   |                            |
|---|----------------------------|
| <b>Physical state</b>                               | Liquid.                    |
| <b>Form</b>   | Aerosol.                   |
| <b>Color</b>  | Clear.                     |
| <b>Odor</b>   | Odorless.                  |
| <b>Odor threshold</b>                               | Not available.             |
| <b>pH</b>   | 8.5                        |
| <b>Melting point/freezing point</b>                 | -103 °F (-75 °C) estimated |
| <b>Initial boiling point and boiling range</b>      | 212 °F (100 °C) estimated  |
| <b>Flash point</b>                                  | None (Tag Closed Cup)      |
| <b>Evaporation rate</b>                             | Slow.                      |
| <b>Flammability (solid, gas)</b>                    | Not available.             |
| <b>Upper/lower flammability or explosive limits</b> |                            |
| <b>Flammability limit - lower (%)</b>               | 1.3 % estimated            |
| <b>Flammability limit - upper (%)</b>               | 10.6 % estimated           |
| <b>Vapor pressure</b>                               | 266.4 hPa estimated        |
| <b>Vapor density</b>                                | > 1 (air = 1)              |
| <b>Relative density</b>                             | 1.01                       |
| <b>Solubility(ies)</b>                              |                            |
| <b>Solubility (water)</b>                           | Soluble.                   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.             |
| <b>Auto-ignition temperature</b>                    | 446 °F (230 °C) estimated  |
| <b>Decomposition temperature</b>                    | Not available.             |
| <b>Viscosity</b>                                    | Not available.             |
| <b>Other information</b>                            |                            |
| <b>Percent volatile</b>                             | 94.2 % estimated           |

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## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Heat. Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Aldehydes. Ketones. Organic acids.   |

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## 11. Toxicological information

### Information on likely routes of exposure

|                   |                                      |
|-------------------|--------------------------------------|
| <b>Inhalation</b> | 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 effects**

**Acute toxicity** Not known.

| Components                     | Species | Test Results |
|--------------------------------|---------|--------------|
| 2-butoxyethanol (CAS 111-76-2) |         |              |
| <b>Acute</b>                   |         |              |
| <b>Dermal</b>                  |         |              |
| LD50                           | Rabbit  | 220 mg/kg    |
| <b>Oral</b>                    |         |              |
| LD50                           | Rat     | 470 mg/kg    |

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

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Canada - Alberta OELs: Irritant**

2-butoxyethanol (CAS 111-76-2) Irritant

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected 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**

**ACGIH Carcinogens**

2-butoxyethanol (CAS 111-76-2) A3 Confirmed animal carcinogen with unknown relevance to humans.

**Canada - Manitoba OELs: carcinogenicity**

2-butoxyethanol (CAS 111-76-2) Confirmed animal carcinogen with unknown relevance to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

2-butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected 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 absorbed through skin. Prolonged inhalation may be harmful.

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.

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## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components                     | Species | Test Results  |
|--------------------------------|---------|---|
| 2-butoxyethanol (CAS 111-76-2) |         |   |
| <b>Aquatic</b>                 |         |   |
| Fish                           | LC50    | Inland silverside (Menidia beryllina) 1250 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 0.83

**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 instructions** 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.

**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**

**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.  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Special provisions** 80

**IATA**

**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.  
**ERG Code** 2L  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Other information**

**Passenger and cargo aircraft** Allowed with restrictions.

**Cargo aircraft only** Allowed with restrictions.

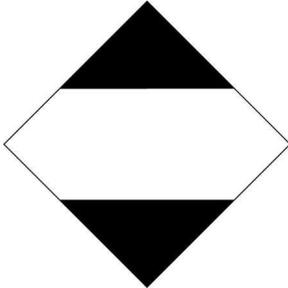
**IMDG**

**UN number** UN1950  
**UN proper shipping name** AEROSOLS, Limited Quantity  
**Transport hazard class(es)**  
**Class** 2.2  
**Subsidiary risk** -  
**Packing group** Not applicable.  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-D, S-U  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

IATA



IMDG; TDG



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## 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 Regulations**

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                    |

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)    | 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

|                             |   |
|-----------------------------|---|
| <b>Issue date</b>           | 09-09-2019  |
| <b>Version #</b>            | 01  |
| <b>Further information</b>  | CRC # 530C/1002544  |
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| <b>Revision information</b> | Product and Company Identification: Product and Company Identification<br>Accidental release measures: Personal precautions, protective equipment and emergency procedures<br>Accidental release measures: Methods and materials for containment and cleaning up<br>Handling and storage: Precautions for safe handling<br>Handling and storage: Conditions for safe storage, including any incompatibilities<br>Physical and chemical properties: Oxidizing properties<br>Physical and chemical properties: Explosive properties<br>Transport Information: Material Transportation Information<br>Other information: Disclaimer<br>GHS: Classification |