

Safety Data Sheet

1. IDENTIFICATION

Product Identifier

Battery cleaner spray

Other means of identification

Battery cleaner

Product Code

120131

Recommended use of the chemical and restrictions on use

Recommended for commercial/industrial use

Not recommended for household use

Details of the supplier of the safety data sheet

Quick Cable Corporation
3700 Quick Drive
Franksville, WI 53126-0509
www.quickcable.com

Emergency Telephone Number (24 hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Physical hazards	Gases under pressure	Liquefied gas
Health hazards	Harmful or fatal if swallowed	
Environmental hazards	Not classified	
OSHA defined hazards	Not classified	

GHS Label Elements

SIGNAL WORD: Warning

Hazard Statements

Ingredients contain a flammable component. Keep away from heat or flame. Contains gas under pressure; may explode if heated.

Precautionary Statements

Prevention: Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49C/120F. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying.

Response: Wash hands after handling.

Storage: Protect from sunlight. Store in a well ventilated place. Exposure to high temperature may cause can to burst.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): None known

Supplemental information: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS#	Weight %*
Water	7732-18-5	80-90
2-Butoxyethanol	111-76-2	2-3
Sodium bicarbonate	144-55-8	1-9
Isobutene	75-28-5	10-14

*Specific chemical identity and/or percentage of composition have been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. Get medical attention if symptoms persist.

Skin contact: Wash 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: Call Poison Center or doctor/physician.

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

Extinguishing media: water

Unsuitable Extinguishing Media: None known

Specific hazards arising from the chemical: Contents under pressure. This product is non-flammable in accordance with aerosol flammability definitions (see 16 CFR 1500.3(c)(6)).

Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions: In case of fire, stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

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. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8.

Methods and materials for containment and cleaning up: Eliminate all ignition sources (no smoking, flares, or flames in immediate area: Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

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 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 re-use empty containers. Do not get this material in contact with skin. Avoid prolonged exposure. Wear appropriate personal protective equipment. Use only in well ventilated areas. 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. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Level 1 aerosol

Conditions for safe storage, including any incompatibilities: Contents under pressure. Do not expose to heat or store at temperatures above 120F/49C 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).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	CAS#	Type	Value
2-Butoxyethanol	111-76-2	PEL	240 mg/m ³ 50 ppm

U.S. ACGIH Threshold Limit Values

Components	CAS#	Type	Value
2-Butoxyethanol	111-76-2	TWA	20 ppm

U.S. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS#	Type	Value
2-Butoxyethanol	111-76-2	TWA	24 mg/m ³ 5 ppm
Isobutane	75-28-5	TWA	1900 mg/m ³ 800 ppm

Biological Limit Values: ACGIH Biological Exposure Indices

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

* For sampling details please see the source document.

Exposure guidelines

U.S. California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin

U.S. Minnesota Haz Subs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Skin designation applies

U.S. Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin

U.S. NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin

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; personal protective equipment

Eye/face protection: Wear safety glasses with side shields or goggles.

Skin and hand protection: Wear appropriate chemical resistant clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards: Wear appropriate thermal protective clothing when necessary.

General hygiene considerations: When using, do not smoke. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Form	Aerosol
Color	Clear	Odor	Odorless
Odor threshold	Not available	pH	8.5
Melting point/freezing point	-103F (-75C) estimated	Boiling point/range	212F (100C) estimated
Flash point	None (closed cup)	Evaporation rate	Slow
Flammability (solid, gas)	Not available	Flammability limit – Lower	1.3% estimated
Flammability limit – Upper	10.6% estimated	Vapor pressure	268.5 hPa estimated
Vapor density	>1 (air = 1)	Relative density	1.04
Solubility (water)	Soluble	Partition coefficient (n-octanol/water)	Not available
Auto-ignition temp	446F (230C) estimated	Decomposition temp	Not available
Viscosity (kinematic)	Not available	Percent volatile	94.2% estimated

10. STABILITY AND REACTIVITY

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: Contact with incompatible materials

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

Ingestion: Expected to be a low ingestion hazard.

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.

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Toxicological effects

Acute toxicity: May be fatal if swallowed and enters airways. Narcotic effects

Type	Species	Test Results*
Acute		
<i>Dermal</i>		
LD50	Rabbit	7723 mg/kg estimated
<i>Inhalation</i>		
LC50	Rat	15797 mg/l, 4 hours estimated 15797 ppm, 4 hours estimated
<i>Oral</i>		
LD50	Rat	16499 mg/kg estimated
Chronic		
<i>inhalation</i>		
LC50	Rat	83 mg/l estimated

*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 sensitization: Not available

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: This product is not considered to be a carcinogen by IARC, ACHIG, NTP, or OSHA.

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 available

Chronic effects: Prolonged inhalation may be harmful. May be harmful if absorbed through skin

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This 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.

Component / Test Type	Species	Test Results*
Battery Cleaner Spray		
Aquatic		
<i>Acute</i>		
Crustacea EC50	Daphnia	54412 mg/l, 48 hours estimated
Fish LC50	Fish	53543 mg/l, 96 hours estimated
2-Butoxyethanol (CAS 111-76-2)		
Aquatic		
<i>Acute</i>		
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: No data available

Partition coefficient n-octanol/water (log Kow)

2-Butoxyethanol 0.81, log Pow

Mobility in soil: Not 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:** The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers or water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents and container in accordance with local, regional, national, international regulations.**Hazardous waste code:** Not regulated**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.**14. TRANSPORT INFORMATION****DOT**

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, limited quantity
Transport hazard classes:	
Class	2.2
Subsidiary risk	-
Labels	2.2
Packing group	Not applicable
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling
Packaging exceptions	306
Packaging non-bulk	None
Packaging bulk	None

IATA

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, limited quantity
Transport hazard classes:	
Class	2.2
Subsidiary risk	-
Packing group	Not applicable
Environmental hazards	No
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling
Other information:	
Passenger and cargo aircraft	Allowed
Cargo aircraft only	Allowed

IMDG

UN number	UN1950
UN proper shipping name	Aerosols, limited quantity
Transport hazard classes:	
Class	2
Subsidiary risk	-
Packing group	Not applicable
Environmental hazards - Marine pollutant	No
EmS	Not available
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling

15. REGULATORY INFORMATION

U.S. Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification, 40 CFR 707, subpart D: Not regulated

SARA 304 Emergency Release Notification: Not regulated

U.S. OSHA Specifically Regulated Substances, 29 CFR 1910.1001.1050: Not listed

U.S. EPCRA (SARA Title III) Section 313 – Toxic Chemical: Listed Substance

2-Butoxyethanol (CAS 111-76-2)

CERCLA Hazardous Substance List, 40 CFR 302.4

2-Butoxyethanol (CAS 111-76-2)

CERCLA Hazardous Substances: Reportable Quantity

2-Butoxyethanol (CAS 111-76-2)

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.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention, 40 CFR 68.130: Not regulated

Safe Drinking Water Act (SDWA): Not regulated

Food and Drug Administration (FDA): Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard Categories:

Immediate hazard No

Delayed hazard Yes

Fire hazard No

Pressure hazard Yes

Reactivity hazard No

SARA 302 Extremely Hazardous Substance: No

U.S. State regulations

New Jersey Worker and Community Right to Know Act: Listed substance

2-Butoxyethanol (CAS 111-76-2)

Massachusetts RTK Substance List

2-Butoxyethanol (CAS 111-76-2)

Pennsylvania Worker and Community Right to Know Law – Hazardous Substances

2-Butoxyethanol (CAS 111-76-2)

Rhode Island RTK

2-Butoxyethanol (CAS 111-76-2)

California Proposition 65: WARNING, This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.**California Proposition 65 – CRT: Listed date/carcinogenic substance**

1, 4-Dioxane (CAS 123-91-1) Listed: January 1, 1988

Ethylene oxide (CAS75-21-8) Listed: July 1, 1987

California Proposition 65 – CRT: Listed date/developmental toxin

Ethylene oxide (CAS75-21-8) Listed: August 7, 2009

California Proposition 65 – CRT: Listed date/female reproductive toxin

Ethylene oxide (CAS75-21-8) Listed: February 27, 1987

California Proposition 65 – CRT: Listed date/male reproductive toxin

Ethylene oxide (CAS75-21-8) Listed: August 7, 2009

Volatile Organic Compounds (VOC) regulations**EPA:****VOC content, 40 CFR 51.100(s)** 7.9%**Consumer products, 40 CFR 59 subpart C** Not regulated**State:****Consumer products** Not regulated**International Inventories**

Countries/Regions	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
US & 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

Hazardous Materials Information Systems HMIS ratings

HEALTH	*1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

National Fire Protection Association NFPA ratings



Blue = Health

Red = Flammability

Yellow = Instability

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.