# SAFETY DATA SHEET

# 1. Identification

Product number	100008247
Product identifier	Battery Cleaner
Company information	Pro-Line Industrial 620 Garcia Ave, Suite C Pittsburgh, CA 94565 United States
Company phone	General Assistance 1-800-263-9436 Fax 1-888-676-9716
Emergency telephone US	1-866-836-8855 (Chemtrec)
Emergency telephone outside US	1-952-852-4646 (Chemtrec)
Version #	01
Recommended use	CLEANER
Recommended restrictions	None known.
0 Upperd(a) identification	

## 2. Hazard(s) identification

Physical hazards	Flammable aerosols
Health hazards	Not classified.
OSHA defined hazards	Not classified.

Label elements



Category 1

Signal word	Danger
Hazard statement	Extremely flammable aerosol.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	Wash hands after handling.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
2-butoxyethanol		111-76-2	1 - 2.5
Propane		74-98-6	1 - 2.5
Sodium Carbonate Anhydrous		497-19-8	1 - 2.5
Other components below report	able levels		90 - 100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

If symptoms develop move victim to fresh air. Get medical attention if symptoms 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	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	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	Not available.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.	
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	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.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.	
General fire hazards	Extremely flammable aerosol.	
6. Accidental release meas	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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	

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 Refer to attached safety data sheets and/or instructions for use. 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 containment and cleaning up dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Level 1 Aerosol. Conditions for safe storage,

including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### **Occupational exposure limits**

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 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.

#### **Exposure guidelines**

US - California OELs: Skin o	designation		
2-butoxyethanol (CAS 11		Can be absorbed through the skin.	
US - Minnesota Haz Subs: S	kin designation applies		
2-butoxyethanol (CAS 11	,	Skin designation applies.	
US - Tennessee OELs: Skin	designation		
2-butoxyethanol (CAS 11		Can be absorbed through the skin.	
US NIOSH Pocket Guide to	Chemical Hazards: Skin desig	ynation	
2-butoxyethanol (CAS 11	,	Can be absorbed through the skin.	
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR	1910.1000)	
2-butoxyethanol (CAS 11	1-76-2)	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,	such as personal protective	equipment	
Eye/face protection	Wear safety glasses with side	e shields (or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear suitable protective clothing.		
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.		
Thermal hazards	Wear appropriate thermal pro	tective clothing, when necessary.	

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    Gas.      Form    Aeroscl.      Color    Not available.      Odor Inteshold    Not available.      Odor Inteshold    Not available.      PH    Not available.      Initial boiling point and boiling range    Not available.      Flash point    -156.0 °F (-104.4 °C) PROPELLANT estimated      Flash point    -156.0 °F (-104.4 °C) PROPELLANT estimated      Flammability (solid, gas)    Not available.      Plannmability (solid, gas)    Not available.      Plannmability (solid, gas)    Not available.      Flammability (solid, gas)    Not available.      * Flammability limit - upper (%)    Not available.      * Explosive limit - lower (%)    Not available.      * Explosive limit - upper (%)    Not available.      * Explosive limit - upper (%)    Not available.      * Explosive limit - upper (%)    Not available.      * Uspor dissity    Not available.      * Partition coefficient    Not available.      * Not available.    Not available.      * Usorgiftion temperature    Not available.      * Not available.	Appearance		
nome    Not available.      Odor    Not available.      Odor threshold    Not available.      Metting point/treezing point    Not available.      Initial boiling point and boiling.    21 °F (100 °C) estimated      arrage    -      Flash point    0:60 °F (-104.4 °C) PROPELLANT estimated      Evaporation rate    Not available.      Planmability (solid, gas)    Not available.      Upper/lower flasmability (solid, gas)    Not available.      Planmability (solid, gas)    Not available.      (%)    Not available.      Planmability (solid, gas)    Not available.      (%)    Not available.      (%)    Not available.      (%)    Not available.      Explosive limit - upper (%)    Not available.      Vapor density    Not available.      Vapor density    Not available.      Solubility (water)    Not available.      Partition coefficient    Not available.      Partition coefficient    Not available.      Vator dynition temperature    Not available.      Vatoridynition temperature	••	Gas.	
Odor    Not available.      Odor threshold    Not available.      pH    Not available.      Melting point/freezing point    Not available.      Initial boiling point and boiling    212 °F (100 °C) estimated      range    -      Flash point    -156.0 °F (-104.4 °C) PROPELLANT estimated      Evaporation rate    Not available.      Flasmability (solid, gas)    Not available.      Vapor ration rate    Not available.      Flammability imit - lower    Not available.      (%)    Not available.      (%)    Not available.      Explosive limit - lower (%)    Not available.      (%)    Not available.      explosive limit - lower (%)    Not available.      Vapor density    Not available.      Vapor density    Not available.      Vapor density    Not available.      Vatavilable.	Form	Aerosol.	
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PH    Not available.      Melting point/freezing point    Not available.      Initial bolling point and bolling range    212 °F (100 °C) estimated      Flash point    -156.0 °F (-104.4 °C) PROPELLANT estimated      Evaporation rate    Not available.      Planmability (solid, gas)    Not available.      Upper/lower flammability or exJUUPer/lower flammability limit - lower (%)    Not available.      Flammability limit - lower (%)    Not available.      Flammability limit - upper (%)    Not available.      Explosive limit - lower (%)    Not available.      (%)    Not available.      Explosive limit - upper (%)    Not available.      Vapor pressure    50 psig @70F estimated      Vapor density    Not available.      Solubility(vise)    Solubility (vater)      Solubility (vater)    Not available.      Partiton coefficient    Not available.      Not available.    Not available.      Viscosity    Not available.      Viscosity    Not available.      Viscosity    Not available.      Oxidizing properties    Not available.      V	Odor	Not available.	
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Hazardous decomposition No hazardous decomposition products are known.			
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	Hazardous decomposition products	No hazardous decomposition products are known.	

# 11. Toxicological information

Inhalation

### Information on likely routes of exposure

No adverse effects due to inhalation are expected.

Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated a 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		

# Information on toxicological effects

## Acute toxicity

Components	Species	Test Results
2-butoxyethanol (CAS 111-76-	2)	
<u>Acute</u>		
Dermal		
LD50	Guinea pig	7.3 ml/kg, 4 Days
		0.23 ml/kg, 24 Hours
	Rabbit	435 mg/kg, 24 Hours
		0.68 ml/kg, 24 Hours
		0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rabbit	400 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
Oral		··· · · · · ·
LD100	Rabbit	695 mg/kg
LD50	Dog	> 695 mg/kg
	Guinea pig	1414 mg/kg
	Mouse	1519 mg/kg
	Rat	1746 mg/kg
	Παι	1740 mg/kg
Butane (CAS 106-97-8)		
<u>Acute</u> Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
2000	medee	52 %, 120 Minutes
	Rat	1355 mg/l
	nai	1555 fligh
Propane (CAS 74-98-6)		
<u>Acute</u> Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
2000	Wedge	52 %, 120 Minutes
	Det	
	Rat	1355 mg/l
		658 mg/l/4h
Sodium Carbonate Anhydrous	(CAS 497-19-8)	
<u>Acute</u>		
Dermal	Dabbit	2000 mc <sup>#</sup> /c
LD50	Rabbit	> 2000 mg/kg
Inhalation	Cuince nig	800 mg/m2 0 11
LC50	Guinea pig	800 mg/m3, 2 Hours
Aerosol	Mouroe	1200 mg/m2 0 Hours
LC50	Mouse	1200 mg/m3, 2 Hours

Components	Species	Test Results
	Rat	2300 mg/m3, 2 Hours
LC50	Rat	2.3 mg/l, 2 hours supplier
Oral		
LD50	Rat	2800 mg/kg
* Estimates for product may b	e based on additional component data not shown.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	on.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritat	ion.
Respiratory or skin sensitization	1	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization	tion.
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, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
2-butoxyethanol (CAS 11 OSHA Specifically Regulate	1-76-2) 3 Not classifiable as d Substances (29 CFR 1910.1001-1050)	to carcinogenicity to humans.
Not regulated.		
US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogens	
Reproductive toxicity	This product is not expected to cause reproductive of	or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not likely, due to the form of the product.	
Chronic effects	May be harmful if absorbed through skin.	
	2-Butoxy ethanol may be absorbed through the skin prolonged. These effects have not been observed in	

# 12. Ecological information

Components		Species	Test Results	
2-butoxyethanol (CAS	111 76 2)	00000		
Aquatic	111-70-2)			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours	
Sodium Carbonate An	hydrous (CAS 497	-19-8)		
Aquatic				
Crustacea	EC50	Daphnia	265 mg/L, 48 Hours	
		Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours	
* Estimates for produc	t may be based on	additional component data not shown.		
sistence and degrada	bility No data is	s available on the degradability of this produc	ct.	
accumulative potentia	al			

Mobility in soil	No data available.	
Propane		2.36
Butane		2.89
2-butoxyethanol		0.83
	ootallor, hater (log real)	

Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation<br/>potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
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. Do not re-use empty containers.

# 14. Transport information

DO	г	
	UN number	UN1950
	UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Special precautions for user	Not available.
	Special provisions	N82
	Packaging exceptions	306
	Packaging non bulk	None
	Packaging bulk	None
IAT	Α	
	UN number	UN1950
	UN proper shipping name	Aerosols, flammable
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Environmental hazards	No.
	ERG Code	10L
		Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo	Allowed with restrictions.
	aircraft	
	Cargo aircraft only	Allowed with restrictions.
	Packaging Exceptions	LTD QTY
IME	0G	
	UN number	UN1950
	UN proper shipping name	AEROSOLS
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	None
	Packing group	Not applicable.
	Environmental hazards	
	Marine pollutant	No.
	EmS	F-D, S-U
		Read safety instructions, SDS and emergency procedures before handling.
	Packaging Exceptions	LTD QTY

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNot applicable.

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15. Regulatory informatio	n			
US federal regulations	This product is a "Hazardous Ch Standard, 29 CFR 1910.1200.	nemical" as define	ed by the OSHA Hazard Communicatior	I
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt.	D)		
Not regulated.				
CERCLA Hazardous Substa	ance List (40 CFR 302.4)			
Not listed.				
SARA 304 Emergency relea	se notification			
Not regulated.	ed Substances (29 CFR 1910.100	1-1050)		
Not regulated.	a Substances (29 CFR 1910.100	1-1050)		
<b>o</b>	outhorization Act of 1086 (CAR)	• •		
Hazard categories	eauthorization Act of 1986 (SAR/ Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No	4)		
SARA 302 Extremely hazar	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name	С	AS number	% by wt.	
2-butoxyethanol	1	11-76-2	1 - 2.5	
Other federal regulations				
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (I	HAPs) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Release Prev	ention (40 CFR (	68.130)	
Butane (CAS 106-97-8) Propane (CAS 74-98-6)				
Safe Drinking Water Act (SDWA)	Not regulated.			

#### **US state regulations**

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8)

### **US. Massachusetts RTK - Substance List**

2-butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. New Jersey Worker and Community Right-to-Know Act

2-butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. Rhode Island RTK

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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, including date of preparation or last revision

Issue date	03-21-2019
Version #	01
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.
Revision information	Product and Company Identification: Alternate Trade Names