



# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>PRODUCT NUMBER:</b>	1252	<b>COMPANY PHONE:</b>	1-800-241-8180
<b>PRODUCT NAME:</b>	BATTERY SAVER	<b>EMERGENCY TELEPHONE:</b>	1-800-241-8180
<b>PRODUCT DESCRIPTION:</b>	Aerosol Battery Terminal Cleaner & Protector.	<b>INFOTRAC:</b>	1-800-535-5053
<b>COMPANY INFORMATION:</b>	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

## 2. Hazards Identification

<b>GHS CLASSIFICATION:</b> Physical Hazards: Flammable aerosols - Category 1	<b>SIGNAL WORD:</b> DANGER	<b>SYMBOL:</b>	
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### HAZARD STATEMENTS:

Extremely flammable aerosol.

### PRECAUTIONARY STATEMENTS:

#### Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**HAZARDS NOT OTHERWISE SPECIFIED:** None.

## 3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Carbonic acid sodium salt (1:1)	144-55-8	1 - <5%
Butane	106-97-8	1 - <5%
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Propane	74-98-6	1 - <5%

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

**Composition Comments:** The components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

## 4. First Aid Measures

### EMERGENCY OVERVIEW:

**EYES:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

**SKIN:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

### INHALATION:

Move to fresh air.

### INGESTION:

Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

### PERSONAL PROTECTION FOR FIRST-AID RESPONDERS:

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

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

**Symptoms:** No data available.

**Hazards:** No data available.

### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

**Treatment:** Get medical attention if symptoms occur.

## 5. Fire Fighting Measures

### GENERAL FIRE HAZARDS:

Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

### SUITABLE FIRE EXTINGUISHING MEDIA:

Use fire-extinguishing media appropriate for surrounding materials.

### UNSUITABLE FIRE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire.

### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Vapors may travel considerable distance to a source of ignition and flash back.

### SPECIFIC FIRE-FIGHTING METHODS:

No data available.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

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

## 6. Accidental Release Measures

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

### ACCIDENTAL RELEASE MEASURES:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

### ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

## 7. Handling and Storage

### HANDLING:

#### TECHNICAL MEASURES (E.G. LOCAL AND GENERAL VENTILATION):

No data available.

#### SAFE HANDLING ADVICE:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Contact Avoidance Measures:** No data available.

#### SAFE STORAGE CONDITIONS:

**Pressurized Container:** Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Aerosol Level 1

**Safe Packaging Materials:** No data available.

**Storage Temperature:** No data available.

## 8. Exposure Controls / Personal Protection

### CONTROL PARAMETERS:

#### Occupational exposure limits:

Chemical Identity:	Type	Exposure Limit Values		Source
Butane	REL	800 ppm	1,900 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	800 ppm	1,900 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	5 ppm	24 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	50 ppm	240 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Propane	TWA	25 ppm	120 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	1,000 ppm	1,800 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,800 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Ammonium hydroxide ((NH4)(OH))	TWA	1,000 ppm	1,800 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	35 ppm	27 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	35 ppm	27 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	25 ppm	18 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	50 ppm	35 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended
Ethanol, 2,2',2''-nitrotris-	REL	3 ppm	15 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	3 ppm	15 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ethanol, 2,2'-iminobis-	TWA		1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended

### BIOLOGICAL LIMIT VALUES:

CHEMICAL IDENTITY	EXPOSURE LIMIT VALUE	SOURCE
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL

### EXPOSURE GUIDELINES:

Ethanol, 2,2'-iminobis- US. ACGIH Threshold Limit Values, as amended Can be absorbed through the skin.

### APPROPRIATE ENGINEERING CONTROLS:

No data available.

**INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:**



**Eye/Face Protection:** Wear goggles/face shield.

**Skin Protection:** Hand Protection: No data available.

Skin and Body Protection: No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**General Hygiene Considerations:** When using do not smoke. Observe good industrial hygiene practices.

**9. Physical & Chemical Properties**

<b>Appearance:</b>		<b>Flammability(solid/gas):</b>	No data available.
<b>Physical State:</b>	Liquid.	<b>Explosive Limit – lower (%):</b>	Estimated 1.9 %(V)
<b>Form:</b>	Spray Aerosol.	<b>Explosive Limit – upper (%):</b>	Estimated 9.5 %(V)
<b>Color:</b>	No data available.	<b>Vapor Pressure:</b>	2,757 - 4,136 hPa (20°C)
<b>Odor:</b>	No data available.	<b>Vapor Density (Air=1):</b>	No data available.
<b>Odor Threshold:</b>	No data available.	<b>Density:</b>	No data available.
<b>pH:</b>	No data available.	<b>Relative Density:</b>	No data available.
<b>Freezing Point:</b>	No data available.	<b>Solubility (water):</b>	No data available.
<b>Boiling Point:</b>	No data available.	<b>Solubility (other):</b>	No data available.
<b>Viscosity:</b>	Not available.	<b>Self-Ignition Temperature:</b>	No data available.
<b>Flash Point:</b>	-156.0°F (-104.4°C)	<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic Viscosity:</b>	No data available.	<b>Explosive Properties:</b>	No data available.
<b>Dynamic Viscosity:</b>	No data available.	<b>Evaporation Rate:</b>	No data available.
<b>Oxidizing Properties:</b>	No data available.		

**10. Stability & Reactivity Information**

**REACTIVITY:**

No data available.

**CHEMICAL STABILITY:**

Material is stable under normal conditions.

**INCOMPATIBLE MATERIALS:**

No data available.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

No data available.

**CONDITIONS TO AVOID:**

Avoid heat or contamination.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

No data available.

**11. Toxicological Information**

**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

**Eyes:** No data available.

**Skin:** No data available.

**Inhalation:** No data available.

**Ingestion:** No data available.

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**

**Eyes:** No data available.

**Skin:** No data available.

**Inhalation:** No data available.

**Ingestion:** No data available.

**ACUTE TOXICITY:**

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

**ACUTE TOXICITY:**

**Oral Product:** ATEmix: 85,387.32 mg/kg

**Dermal Product:** ATEmix: 32,619.33 mg/kg

**Inhalation Product:** ATEmix: 978.09 mg/l Vapour

ATEmix : 244.52 mg/l Dusts, mists and fumes

**REPEATED DOSE TOXICITY:**

**Product:** No data available.

**Components:**

Butane	LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
Ethanol, 2-butoxy-	NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key study
Propane	NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study

**SKIN CORROSION/IRRITATION:****Product:** No data available.**Components:**

Carbonic acid sodium salt (1:1)	Assessment Not Classified
Ethanol, 2-butoxy-	in vivo (Rabbit): Irritating

**SERIOUS EYE DAMAGE/EYE IRRITATION:****Product:** No data available.**Components:**

Ethanol, 2-butoxy-	Rabbit, 24 - 72 hrs: Irritating
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**RESPIRATORY OR SKIN SENSITIZATION:****Product:** No data available.**Components:**

Ethanol, 2-butoxy-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
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**CARCINOGENICITY:****Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified.

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified.

**GERM CELL MUTAGENICITY:****In vitro Product:** No data available.**In vivo Product:** No data available.**REPRODUCTIVE TOXICITY:****Product:** No data available.**SPECIFIC TARGET ORGAN TOXICITY -single exposure:****Product:** No data available.**SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:****Product:** No data available.**ASPIRATION HAZARD****Product:** No data available.**OTHER EFFECTS:**

No data available.

**12. Ecological Information****ECOTOXICITY:****ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT:****FISH****Product:** No data available.**Components:**

Carbonic acid sodium salt (1:1)	NOAEL (Lepomis macrochirus, 96 h): 5,200 mg/l Experimental result, Key study LC 50 (Lepomis macrochirus, 96 h): 7,100 mg/l Experimental result, Key study
Butane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Ethanol, 2-butoxy-	LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

**AQUATIC INVERTEBRATES:****Product:** No data available.**Components:**

Carbonic acid sodium salt (1:1)	EC 50 (Daphnia magna, 48 h): 4,100 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 3,100 mg/l Experimental result, Key study
Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Ethanol, 2-butoxy-	EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

**CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT:****FISH****Product:** No data available.**Components:**

Ethanol, 2-butoxy-	NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study
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**AQUATIC INVERTEBRATES:****Product:** No data available.**Components:**

Carbonic acid sodium salt (1:1)	NOAEL (Daphnia magna): > 576 mg/l Experimental result, Key study
Ethanol, 2-butoxy-	EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study

**TOXICITY TO AQUATIC PLANTS:****Product:** No data available.

**PERSISTENCE AND DEGRADABILITY:**

**Biodegradation Product:** No data available.

**Components:**

Butane	100% (385.5 h) Detected in water. Experimental result, Key study
Ethanol, 2-butoxy-	90.4% Detected in water. Experimental result, Key study
Propane	100% (385.5 h) Detected in water. Experimental result, Key study
	50% (3.19 d) Detected in water. QSAR, Weight of Evidence study

**BOD/COD RATIO:**

**Product:** No data available.

**BIOACCUMULATIVE POTENTIAL:**

**Bioconcentration Factor (BCF):**

**Product:** No data available.

**PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW):**

**Product:** No data available.

**MOBILITY IN SOIL:**

No data available.

**Components:**

Carbonic acid sodium salt (1:1)	No data available.
Butane	No data available.
Ethanol, 2-butoxy-	No data available.
Propane	No data available.

**OTHER ADVERSE EFFECTS:**

No data available.

**13. Disposal Consideration****DISPOSAL INSTRUCTIONS:**

Wash before disposal. Dispose to controlled facilities.

**CONTAMINATED PACKAGING:**

No data available.

**14. Transportation Information**

**DOT:** UN Number: UN1950  
 UN Proper Shipping Name: Aerosols, flammable  
 Transport Hazard Class(es):  
 Class: 2.1  
 Label(s): -  
 Packing Group: II



Special Precautions for User: Not regulated.

**IATA:** UN Number: UN1950  
 UN Proper Shipping Name: Aerosols, flammable  
 Transport Hazard Class(es):  
 Class: 2.1  
 Label(s): -  
 Packing Group: -



Special Precautions for User: Not regulated.  
 Passenger and Cargo Aircraft: Allowed. 203  
 Cargo Aircraft Only: Allowed. 203

**IMDG:** UN Number: UN1950  
 UN Proper Shipping Name: Aerosols, flammable  
 Transport Hazard Class(es):  
 Class: 2  
 Label(s): -  
 Packing Group: -  
 Special Precautions for User: Not regulated.

**15. Regulatory Information****US FEDERAL REGULATIONS:**

**Restrictions on use:** Not known.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):**

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Chemical Identity:**

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY  
 RCRA HAZARDOUS WASTE NO. D001  
 GLYCOL ETHERS  
 AMMONIUM HYDROXIDE  
 DIETHANOLAMINE

**Superfund Amendments and Reauthorization Act of 1986 (SARA):**

**Hazard Categories:**

Flammable aerosol

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances:**

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

<u>Chemical Name</u>	<u>% by wt.</u>
Ethanol, 2-butoxy-	1.0%

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

**US STATE REGULATIONS:**

**US. California Proposition 65:** For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

**Chemical Identity:**

Butane  
 Ethanol, 2-butoxy-  
 Propane

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

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK – Hazardous Substances:**

**Chemical Identity:**

Butane  
 Ethanol, 2-butoxy-  
 Propane

**US. Rhode Island RTK:**

No ingredient regulated by RI Right-to-Know Law present.

**INTERNATIONAL REGULATIONS:**

**Montreal Protocol:**

Not applicable.

**Stockholm Convention:**

Not applicable.

**Rotterdam Convention:**

Not applicable.

**Kyoto Protocol:**

**INVENTORY STATUS:**

Australia AICS:	On or in compliance with the inventory.
Canada DSL Inventory List:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Ontario Inventory:	On or in compliance with the inventory.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.

**16. Other Information**

**N/A = Not Applicable; N/D = Not Determined**

**DISCLAIMER:**

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.