

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** BATTERY CLEANER 6515

**Other means of identification**

**SDS number:** RE1000044837

**Recommended restrictions**

**Recommended use:** Cleaner

**Restrictions on use:** Not known.

**Manufacturer Information**

**Manufacturer**

**Company Name:** IMPERIAL SUPPLIES LLC  
**Address:** PO BOX 11008  
GREEN BAY, WI 54307-1008  
US  
**Telephone:** 800-558-2808

**Emergency telephone number:** 1-866-836-8855

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable aerosol Category 1

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** 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.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Butane	106-97-8	5 - <10%
Carbonic acid sodium salt (1:1)	144-55-8	1 - <5%
Propane	74-98-6	1 - <5%
Ethanol, 2-butoxy-	111-76-2	1 - <5%

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

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

#### Description of necessary first-aid measures

<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<b>Personal Protection for First-aid Responders:</b>	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 (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable 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.

## Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** 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 material 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.

### Storage

**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/m3	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/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Propane	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,800 mg/m3	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/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ammonium hydroxide ((NH4)(OH))	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/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Ethanol, 2,2',2"-nitrilotris-	TWA		5 mg/m3	US. ACGIH Threshold Limit Values, as amended
Ethanol, 2,2'-iminobis-	REL	3 ppm	15 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	3 ppm	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.	TWA		1 mg/m3	US. ACGIH Threshold Limit Values, as amended
Formaldehyde	REL	0.016 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	0.75 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	2 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	0.75 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	OSHA_ACT	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
Formaldehyde - as formaldehyde	REL	0.016 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Formaldehyde	Ceil_Time	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Formaldehyde - as formaldehyde	Ceil_Time	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Formaldehyde	STEL	2 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	STEL	0.3 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	0.1 ppm		US. ACGIH Threshold Limit Values, as amended

### Biological Limit Values

Chemical Identity	Exposure Limit Values	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.
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### 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.

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

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	Spray Aerosol
<b>Color:</b>	No data available.
<b>Odor:</b>	No data available.
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	-104.44 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive limit - upper (%):</b>	Estimated 9.5 %(V)
<b>Explosive limit - lower (%):</b>	Estimated 1.9 %(V)
<b>Vapor pressure:</b>	3,792 - 5,171 hPa (20 °C)
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Self Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.  
**Eye contact:** No data available.  
**Ingestion:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation:** No data available.  
**Skin Contact:** No data available.  
**Eye contact:** No data available.  
**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**  
**Product:** ATEmix: 81,942.41 mg/kg

**Dermal**  
**Product:** ATEmix: 49,642.55 mg/kg

**Inhalation**  
**Product:** ATEmix: 1,043.35 mg/l Vapour  
ATEmix : 260.84 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

Propane  
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

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  
NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal  
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

### Respiratory or Skin Sensitization

**Product:** No data available.

#### Components:

Ethanol, 2-butoxy- Skin sensitization:, in vivo (Guinea pig): Non sensitising

### 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:

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

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

Propane 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

### **Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
Butane	LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
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
Ethanol, 2-butoxy-	EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

### **Chronic hazards to the aquatic environment:**

#### **Fish**

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

### **Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
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**

<b>Product:</b>	No data available.
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### **Persistence and Degradability**

#### **Biodegradation**

<b>Product:</b>	No data available.
<b>Components:</b>	
Butane	100 % (385.5 h) 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
Ethanol, 2-butoxy-	90.4 % Detected in water. Experimental result, Key study

#### **BOD/COD Ratio**

<b>Product:</b>	No data available.
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### **Bioaccumulative potential**

#### **Bioconcentration Factor (BCF)**

<b>Product:</b>	No data available.
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### **Partition Coefficient n-octanol / water (log Kow)**

<b>Product:</b>	No data available.
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### **Mobility in soil:**

No data available.

#### **Components:**

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



**Other adverse effects:** No data available.

### 13. Disposal considerations

**Disposal instructions:** Wash before disposal. Dispose to controlled facilities.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### DOT

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	–
EmS No.:	
Packing Group:	–
Special precautions for user:	Not regulated.

#### IATA

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es):	
Class:	2.1
Label(s):	–
Packing Group:	–
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 203
Cargo aircraft only:	Allowed. 203

#### IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	–
EmS No.:	
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**

**Chemical Identity**  
Formaldehyde

**OSHA hazard(s)**  
Acute toxicity  
Skin sensitization  
Respiratory sensitization  
Eye irritation  
Skin irritation  
Flammability  
Respiratory tract irritation  
Cancer

**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  
METHYLENE OXIDE

**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**

**Chemical Identity**

Ethanol, 2-butoxy-

**% by weight**

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  
Propane  
Ethanol, 2-butoxy-

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Formaldehyde

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Butane  
Propane  
Ethanol, 2-butoxy-

**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**  
Not applicable

**Inventory Status:**

EINECS, ELINCS or NLP	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
Canada NDSL Inventory	Not in compliance with the inventory.
Philippines PICCS	Not 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.
Australia AICS	On or in compliance with the inventory
Canada DSL Inventory List	On or 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
US TSCA Inventory	On or in compliance with the inventory
New Zealand Inventory of Chemicals	On or 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, including date of preparation or last revision**

**Issue Date:** 12/10/2020

**Revision Information:** No data available.

**Version #:** 1.0

**Further Information:** No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.