

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Battery Cleaner  
 MSDS NO. 4606  
 Revision Date: 03/24/2010  
 Date Printed: 03/24/2010

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Battery Cleaner  
 Chemical Family: CLEANER  
 Synonyms: None  
 Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Butane 106-97-8	<5	Not Listed	Not Listed	Not Listed
Hexane 110-54-3	30-49	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	<2	Not Listed	Not Listed	Not Listed
Propane 74-98-6	<5	Not Listed	Not Listed	Not Listed
Petroleum Distillate Mixture 8002-05-9	<15	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Butane 106-97-8	<5	Not Listed	1900 mg/m <sup>3</sup> 800 ppm	Not Listed
Hexane 110-54-3	30-49	1800 mg/m <sup>3</sup> 500 ppm	180 mg/m <sup>3</sup> 50 ppm	Not Listed
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	120 mg/m <sup>3</sup> 25 ppm
Acetone 67-64-1	<2	2400 mg/m <sup>3</sup> 1000 ppm	1800 mg/m <sup>3</sup> 750 ppm	Not Listed
Propane 74-98-6	<5	1800 mg/m <sup>3</sup> 1000 ppm	1800 mg/m <sup>3</sup> 1000 ppm	Not Listed
Petroleum Distillate Mixture 8002-05-9	<15	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Butane 106-97-8	1000 ppm	Not Listed	Not Listed
Hexane 110-54-3	50 ppm	Not Listed	Not Listed
2-butoxyethanol 111-76-2	20 ppm	Not Listed	Not Listed
Acetone 67-64-1	500 ppm	750 ppm	Not Listed
Propane 74-98-6	1000 ppm	Not Listed	Not Listed
Petroleum Distillate Mixture 8002-05-9	Not Listed	Not Listed	Not Listed

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### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Danger: Extremely flammable. Content under pressure. Harmful or fatal if swallowed. Aspiration hazard. Vapor Harmful. Keep away from heat, sparks, and flame. Can cause nervous system depression.

**HMIS Classification:** Health: \*2 Flammability: 4 Physical Hazard: 2  
**NFPA Rating:** Health: 3 Flammability: 4 Reactivity: 2

### 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Get medical attention immediately.

**Ingestion:** Get immediate medical attention. Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Do not leave individual unattended.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes, and launder before reuse.

### 5. FIRE FIGHTING MEASURES

#### Flammable Properties

**Flash Point F(°C):** 0 F (-17.8 C)  
**Flash Point Method:** TAG Closed Cup  
**Flammable Limits in Air - Lower (%):** Not Determined  
**Flammable Limits in Air - Upper (%):** Not Determined  
**Autoignition Temperature F(°C):** Not Determined  
**Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.

#### Protection Of Fire-Fighters:

**Special Fire-Fighting Procedures:** Cool container with water spray. SCBA should be used whenever chemical fires are present.  
**Hazardous Combustion Products:** Not determined.  
**Aerosol Comments:** NFPA Level 3 Aerosol

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear safety glasses or goggles and impervious gloves. When respiratory protection is required, use an organic vapor and particulate cartridge.

**Spill Procedures:** Only trained and qualified personnel should handle any spilled or leaked product. Wear protective equipment specified. Ventilate spill area. Soak up material with absorbent and place in chemical waste container.

**Action to be taken if material is released or spilled:** Stop release at source. Dike area and contain. Isolate hazard area, keeping unnecessary and unprotected personnel from entering. Remove sources of ignition.

**Environmental Precautions:** Keep away from drains.

### 7. HANDLING AND STORAGE

**Handling and Storage:** Keep away from heat and open flame. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. Store in a dry place inaccessible to children and out of sunlight. Avoid contact with eyes, skin and clothing.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Exhaust ventilation. Showers. Eyewash stations.  
**Eyes:** Wear safety glasses or goggles to protect against exposure.  
**Skin Protection:** Impervious gloves.  
**Respiratory Protection:** Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, purple spray or mist.  
**Odor:** SOLVENT

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

pH Value: Not Determined  
 Vapor Pressure: Not Determined  
 Vapor Density (Air=1): Not Determined  
 Boiling Point (°F): Not determined.  
 Melting/Freezing Point: Not determined.  
 Solubility in Water: NEGLIGIBLE  
 Bulk Density at 20°C: Not Determined  
 Molecular Weight: Mixture  
 Specific Gravity (H2O=1): .82  
 Viscosity: Not determined.  
 Evaporation Rate: Not Determined  
 VOC Content(%): Not determined.  
 Decomposition Temperature: Not Known

## 10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.  
 Conditions to Avoid: Keep away from heat, sparks and flame. Temperature over 120 F.  
 Materials to Avoid: Acids. Strong oxidizers.  
 Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide.  
 Hazardous Polymerization: WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

Component	Route	Species	Dose
Butane 106-97-8	NA	NA	LC50 658 gm/m <sup>3</sup> /4H
Hexane 110-54-3	Inhalation	Rats	LC50 48,000 ppm
2-butoxyethanol 111-76-2	Inhalation	Rats	LC50 450 ppm/4H
Acetone 67-64-1	Inhalation	Rats	LC50 50100 mg/m <sup>3</sup> /8H
Propane 74-98-6	NA	NA	Not known.
Petroleum Distillate Mixture 8002-05-9	Oral	Rats	LD50 >4300 mg/kg

### Carcinogenicity:

Component	IARC	NTP	OSHA
Butane 106-97-8	Not Listed	Not Listed	Not Listed
Hexane 110-54-3	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed
Petroleum Distillate Mixture 8002-05-9	Group 3 (not classifiable)	Not Listed	Not Listed

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### 12. ECOLOGICAL INFORMATION

**Remarks:** 2-Butoxyethanol: Toxicity to fish-flathead minnow; 96h; LC50 Results: 1780 mg/l.

### 13. DISPOSAL CONSIDERATION

**Waste Classification:** Not determined.  
**Waste Management:** Not determined.  
**Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

### 14. TRANSPORTATION INFORMATION

**U.S. DOT:**  
**Proper Shipping Name:** CONSUMER COMMODITY  
**Hazard Class:** ORM D  
**UN/NA Number:** Not Applicable  
**DOT Packing Group:** Not Applicable

**IMDG:**  
**Proper Shipping Name:** Aerosols  
**Hazard Class:** 2  
**Hazard Subclass:** 2.1  
**UN No.:** UN 1950  
**Packing Group:** Not Applicable  
**Marine Pollutant:** No

### 15. REGULATORY INFORMATION

**US Federal Regulations:**

Component	SARA 313	SARA 302	TPQ	RQ
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Hexane 110-54-3	Listed.	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Petroleum Distillate Mixture 8002-05-9	Not Listed	Not Listed	Not Listed	Not Listed

**SARA 311/312 Hazard Categories:** Acute, Chronic, Fire, Pressure

**State Regulations:**

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Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Petroleum Distillate Mixture 8002-05-9	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Butane 106-97-8	Substance no. 0273 Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430
Hexane 110-54-3	Substance no. 1340
2-butoxyethanol 111-76-2	Substance no. 0275
Acetone 67-64-1	Substance no. 0006 Listed Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430
Propane 74-98-6	Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430 Substance no. 1594
Petroleum Distillate Mixture 8002-05-9	Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430 Substance no. 2648

**U.S. TSCA:** The components of this product are listed on the TSCA Inventory.  
**Canadian Inventory:** The components of this product are listed on the Canadian DSL or NDSL Inventory.

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### **Consumer Product Safety Improvement Act of 2008 General Conformity Certification**

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

## 16. OTHER INFORMATION

**General Notes:**  
**Disclaimer:**

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.