

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Battery Cleaner  
MSDS NO. 4606  
Revision Date: 12/03/2002  
Date Printed 12/09/2003

## 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

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Butane 106-97-8	<5	Not Known	Not Known	800 ppm	Not Known
N-Hexane 110-54-3	30-49	500 ppm	Not Known	50 ppm	Not Known
2-butoxyethanol 111-76-2	<3	50 ppm	Not Determined	20 ppm	Not Determined
Acetone 67-64-1	<2	1000 ppm	750 ppm	500 ppm	750 ppm
Propane 74-98-6	<5	1000 ppm	Not Known	2500 ppm	Not Known
Petroleum Distillate Mixture 8002-05-9	<15	500 ppm	Not Known	Not Known	Not Known

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Danger: Extremely flammable. Content under pressure. Harmful or fatal if swallowed. Aspiration hazard if swallowed. 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.  
**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 1 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.

**Trade Name:** Johnsens Battery Cleaner **MSDS NO.** 4606

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, incenerate or store above 120 F. Exposure to high temperatures may cuase 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 **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 **Evaporation Rate:** Not Determined  
**Viscosity:** Not determined. **Specific Gravity (H20=1):** .82  
**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:**

Ingredient/CAS No.	wt. %	Route	Species	Dose
Butane 106-97-8	<5	Inhalation	Rats	LC50 658 gm/m3/4H
N-Hexane 110-54-3	30-49	Inhalation	Rats	LC50 48,000 ppm
2-butoxyethanol 111-76-2	<3	Inhalation	Rats	LC50 450 ppm/4H
Acetone 67-64-1	<2	Inhalation	Rats	LC50 50100 mg/m3/8H
Propane 74-98-6	<5	NA	NA	Not known.
Petroleum Distillate Mixture 8002-05-9	<15	Oral	Rats	LD50 >4300 mg/kg

**Carcinogenicity:**

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Butane 106-97-8	<5	Not Listed	Not Listed	Not Listed
N-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	Grup 3 (not classifiable)	Not Listed	Not Listed

Trade Name: Johnsens Battery Cleaner MSDS NO. 4606

**12. ECOLOGICAL INFORMATION**

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 should be made in accordance with federal, state and local regulations.

**14. TRANSPORTATION INFORMATION**

**U.S. DOT:**

Proper Shipping Name: ORM-D CONSUMER COMMODITY  
 Hazard Class: ORM-D  
 UN/NA Number: Not Applicable  
 DOT Packing Group: Not Applicable

**IMDG:**

Proper Shipping Name: Aerosols  
 Hazard Class: 2.1 (limited Quantity)  
 Hazard Subclass: Not determined.  
 UN No.: UN1950  
 Packing Group: Not determined.  
 Marine Pollutant: No

**15. REGULATORY INFORMATION**

**US Federal Regulations:**

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Butane 106-97-8	<5	Not Listed	Not Listed	NA	NA
N-Hexane 110-54-3	30-49	Listed	Not Listed	NA	NA
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	NA	NA
Acetone 67-64-1	<2	Not Listed	Not Listed	NA	NA
Propane 74-98-6	<5	Not Listed	Not Listed	NA	NA
Petroleum Distillate Mixture 8002-05-9	<15	Not Listed	Not Listed	NA	NA

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

**State Regulations:**

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Butane 106-97-8	<5	Not Listed	Not Listed	Not Listed	Not Listed
N-Hexane 110-54-3	30-49	Not Listed	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	Not Listed	Not Listed
Acetone 67-64-1	<2	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	<5	Not Listed	Not Listed	Not Listed	Not Listed
Petroleum Distillate Mixture 8002-05-9	<15	Not Listed	Not Listed	Not Listed	Not Listed

**Trade Name:** Johnsens Battery Cleaner **MSDS NO.** 4606

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

**16. OTHER INFORMATION**

**General Notes:** Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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