

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Battery Terminal Protector
MSDS NO. 4605
Revision Date: 04/11/2006
Date Printed 12/30/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Battery Terminal Protector
Chemical Family: SOLVENT
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
Acetone 67-64-1	60-79	Not Listed	Not Listed	Not Listed
Hexane (Mixed Isomers) 110-54-3	0-19	Not Listed	Not Listed	Not Listed
Propane 74-98-6	<5	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	<5	Not Listed	Not Listed	Not Listed
Butane 106-97-8	<5	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Acetone 67-64-1	60-79	2400 mg/m ³ 1000 ppm	1800 mg/m ³ 750 ppm	Not Listed
Hexane (Mixed Isomers) 110-54-3	0-19	1800 mg/m ³ 500 ppm	180 mg/m ³ 50 ppm	Not Listed
Propane 74-98-6	<5	1800 mg/m ³ 1000 ppm	1800 mg/m ³ 1000 ppm	Not Listed
Iso-Butane 75-28-5	<5	Not Listed	Not Listed	Not Listed
Butane 106-97-8	<5	Not Listed	1900 mg/m ³ 800 ppm	Not Listed
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	120 mg/m ³ 25 ppm

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Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Acetone 67-64-1	500 ppm	750 ppm	Not Listed
Hexane (Mixed Isomers) 110-54-3	50 ppm	Not Listed	Not Listed
Propane 74-98-6	1000 ppm	Not Listed	Not Listed
Iso-Butane 75-28-5	1000 ppm	Not Listed	Not Listed
Butane 106-97-8	1000 ppm	Not Listed	Not Listed
2-butoxyethanol 111-76-2	20 ppm	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

Emergency Overview: Content under pressure. Keep away from heat, sparks and flame. Danger: Extremely flammable. May be fatal if swallowed. Avoid breathing vapors. Excessive inhalation causes headache, dizziness, nausea, and incoordination.

HMIS Classification: Health: *2 Flammability: 4 Physical Hazard: 2
NFPA Rating: Health: 3 Flammability: 4 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.
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: Wash with soap and water. Remove contaminated clothing and shoes, and launder before reuse. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): <0 F
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): NT
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: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Warning!! Contents under pressure. Container may rupture under fire conditions. Decomposition may occur.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide.
Aerosol Comments: NFPA Level 3 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Contain any liquid from leaking containers. Wear protective equipment specified.
Action to be taken if material is released or spilled: Remove sources of ignition. Increase area ventilation. Do not puncture or incinerate container. Contents under pressure. Clean up using dry procedures; avoid dusting. Sweep or gather up material and place in proper container for disposal or recovery.
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

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7. HANDLING AND STORAGE

Handling and Storage: Danger: Extremely flammable. Caution: Contents under pressure. Keep away from heat and open flame. Do not puncture, incinerate or store above 120 F. Do not store in passenger compartment of automobile. Use only in a well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation. Showers. Eyewash stations.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Rubber apron.
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: Colorless to light yellow liquid
Odor: TYPICAL 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
Specific Gravity (H2O=1): .8 @ 70 F
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: Strong acids. Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

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Component	Route	Species	Dose
Acetone 67-64-1	Inhalation	Rats	LC50 50100 mg/m ³ /8H
Hexane (Mixed Isomers) 110-54-3	Inhalation	Rats	LC50 48,000 ppm
Propane 74-98-6	NA	NA	Not known.
Iso-Butane 75-28-5	Inhalation	Rats	LC50 57 pph/15M
Butane 106-97-8	NA	NA	LC50 658 gm/m ³ /4H
2-butoxyethanol 111-76-2	Inhalation	Rats	LC50 450 ppm/4H

Carcinogenicity:

Component	IARC	NTP	OSHA
Acetone 67-64-1	Not Listed	Not Listed	Not Listed
Hexane (Mixed Isomers) 110-54-3	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	Not Listed	Not Listed	Not Listed
Butane 106-97-8	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

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: 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

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15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Hexane (Mixed Isomers) 110-54-3	Listed.	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	Not Listed	Not Listed	Not Listed	Not Listed
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Catagories: Not Determined.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Acetone 67-64-1	Not Listed	Not Listed	Not Listed	Not Listed
Hexane (Mixed Isomers) 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	Not Listed	Not Listed	Not Listed	Not Listed
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed

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Component	New Jersey Right-to-Know List:
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
Hexane (Mixed Isomers) 110-54-3	Substance no. 1340
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
Iso-Butane 75-28-5	Substance no. 2422 Substance no. 2423 Substance no. 2425 Substance no. 2426 Substance no. 2427 Substance no. 2428 Substance no. 2429 Substance no. 2430
Butane 106-97-8	Substance no. 1040 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
2-butoxyethanol 111-76-2	Substance no. 0275

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.

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

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16. OTHER INFORMATION

Disclaimer:

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.