

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Battery Terminal Protector
MSDS NO. 4605
Revision Date: 09/23/2002
Date Printed: 12/09/2003

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

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Acetone 67-64-1	60-79	1000 ppm	750 ppm	500 ppm	750 ppm
Hexane (Mixed Isomers) 110-54-3	0-19	500 ppm	Not Known	50 ppm	Not Known
Propane 74-98-6	<5	1000 ppm	Not Known	2500 ppm	Not Known
Butane 106-97-8	<5	Not Known	Not Known	800 ppm	Not Known
Iso-Butane 75-28-5	<5	None Established	None Established	None Established	None Established
2-butoxyethanol 111-76-2	<3	50 ppm	Not Determined	20 ppm	Not Determined

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.

Trade Name: Johnsens Battery Terminal Protector **MSDS NO.** 4605

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.

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 **Evaporation Rate:** Not Determined
Viscosity: Not determined. **Specific Gravity (H2O=1):** .8 @ 70 F
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:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Acetone 67-64-1	60-79	Inhalation	Rats	LC50 50100 mg/m3/8H
Hexane (Mixed Isomers) 110-54-3	0-19	Inhalation	Rats	LC50 48,000 ppm
Propane 74-98-6	<5	NA	NA	Not known.
Butane 106-97-8	<5	Inhalation	Rats	LC50 658 gm/m3/4H
Iso-Butane 75-28-5	<5	Inhalation	Rats	LC50 57 pph/15M
2-butoxyethanol 111-76-2	<3	Inhalation	Rats	LC50 450 ppm/4H

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
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
Butane 106-97-8	<5	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	<5	Not Listed	Not Listed	Not Listed
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

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
Acetone 67-64-1	60-79	Not Listed	Not Listed	NA	NA
Hexane (Mixed Isomers) 110-54-3	0-19	Listed	Not Listed	5000 lbs.	NA
Propane 74-98-6	<5	Not Listed	Not Listed	NA	NA
Butane 106-97-8	<5	Not Listed	Not Listed	NA	NA
Iso-Butane 75-28-5	<5	Not Listed	Not Listed	NA	NA
2-butoxyethanol 111-76-2	<3	Not Listed	Not Listed	NA	NA

SARA 311/312 Hazard Categories: Not Determined.

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
Acetone 67-64-1	60-79	Not Listed	Not Listed	Not Listed	Not Listed
Hexane (Mixed Isomers) 110-54-3	0-19	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	<5	Not Listed	Not Listed	Not Listed	Not Listed
Butane 106-97-8	<5	Not Listed	Not Listed	Not Listed	Not Listed
Iso-Butane 75-28-5	<5	Not Listed	Not Listed	Not Listed	Not Listed
2-butoxyethanol	<3	Not Listed	Not Listed	Not Listed	Not Listed

Trade Name: Johnsens Battery Terminal Protector **MSDS NO.** 4605

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
111-76-2					

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.

Disclaimer:

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