



## MATERIAL SAFETY DATA SHEET

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### BATTERY TERMINAL CLEANER PART NO. 49675

#### SECTION I – IDENTITY INFORMATION

Product Name : Battery Terminal Cleaner w/Acid Detector

#### SECTION II – HAZARDOUS INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS #</u>	<u>VAPOR PRESSURE</u>		<u>WGT %</u>
		<u>mm Hg @ TEMPERATURE</u>		
Butane	106-97-8	1640	68	4
Propane	74-98-6	6350	68	2

**\*\*No toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present\*\***

#### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Range : -44<sup>0</sup> F to 212<sup>0</sup> F  
Specific Gravity (H<sub>2</sub>O=1) : 0.98  
Vapor Density : Unknown  
Evaporation Rate : Unknown  
Solubility in Water : Complete  
Appearance and Odor : Aerosol product

#### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) : -156<sup>0</sup> F (Estimated)  
Flammable Limits in Air by Volume : Lower – 1.9 Upper - 9.5  
Extinguishing Media : Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog.  
Special Fire Fighting Procedures : Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred. Wear goggles and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards : Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will not support combustion. Over-exposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent.

Obtain medical attention.

## SECTION V – REACTIVITY DATA

Stability : Stable

Conditions to Avoid : Application to hot surfaces. Storage above 120<sup>0</sup> F. Exposure to open flame.

Incompatibility (Materials to Avoid) : Oxidizing agents.

Hazardous Decomposition or Byproducts : May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

Hazardous Polymerization : Will not occur.

## SECTION VI – HEALTH HAZARD DATA

### HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Inhalation : Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired co-ordination.

Skin Contact : Contact may dry the skin; prolonged contact may cause irritation.

Eye Contact : Liquid or vapor can irritate.

Skin Absorption : Can be absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Ingestion : Not a likely route of exposure. If swallowed, Do Not induce vomiting. Seek immediate medical advice and/or attention.

### HEALTH HAZARDS (ACUTE AND CHRONIC):

Acute : Eye irritant. Skin irritant.

Chronic : Unknown

### CARCINOGENICITY:

NTP Carcinogen : No

IARC Monographs : No

OSHA Regulated : No

Medical Conditions Generally Aggravated by Exposure : None known.

### EMERGENCY AND FIRST AID PROCEDURES:

Inhalation : Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.

Skin : Wipe off with towel. Wash with soap and water. Get medical attention if irritation persists.  
Eyes : Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled : Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Clean up area with absorbent material and place in closed containers for disposal.

Waste Disposal Method : Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

Precautions to be Taken in Handling and Storing : Store and use in cool, dry, well ventilated areas. Do not store above 120<sup>0</sup> F. Do not puncture or incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally.

Other Precautions : The storage of non-flammable products with non-flammable pressurizing agent, in cartons, is the same as for ordinary canned goods in cartons.

## SECTION VIII – CONTROL MEASURES

Respiratory Protection : None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved airline type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Ventilation : Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/TLV of most hazardous ingredient below acceptable limit and LEL below stated limit.

Protective Gloves : None under normal use. Solvent resistant

Eye Protection : required for prolonged or repeated contact.  
is : None under normal use; however, use of safety glasses with splash-guards or full face shield recommended.

**Pg. 4 of 4**  
**P/N 49675**

Other Protective Clothing or Equipment : None under normal use; however, use of solvent resistant aprons or other clothing is recommended.  
Work/Hygienic Practices : Eye washes and safety showers in the workplace are recommended.

## **SECTION IX – HAZARD COMMUNICATION CODES**

### HMIS CODES:

Health : 1  
Flammability : 2  
Reactivity : 0

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