



MATERIAL SAFETY DATA SHEET

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BATTERY TERMINAL PROTECTOR PART NO. 49678

SECTION I – PRODUCT IDENTITY

Product Name : Battery Terminal Protector

SECTION II – HAZARDOUS INGREDIENTS

| <u>INGREDIENTS</u> | <u>CAS #</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>VAPOR PRESSURE</u> mm Hg @ TEMP | | <u>WGT %</u> |
|--------------------------------------|--------------|---------------------|----------------------|---------------------------------------|----|--------------|
| Acetone | 67-64-1 | 750 PPM | 750 PPM | 181 | 68 | 40 |
| *Toluene | 108-88-3 | 200 PPM | 100 PPM | 10 | 81 | 16 |
| Petroleum Distillate VM&P Naphtha | 64742-89-8 | 300 PPM | 300 PPM | 10 | 68 | 4 |
| *2-Butoxyethanol, Glycol Ether | 111-76-2 | 25 PPM | 25 PPM | .6 | 68 | 1 |
| Propane | 74-98-6 | 1000 PPM | Asphyxiant | 6350 | 68 | 15 |
| Butane | 106-97-8 | 800 PPM | 800 PPM | 1640 | 68 | 15 |

**Indicates Toxic Chemical(s) Subject to the Reporting Requirements of Section 313 of Title III and of 40 CFR 372.*

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Range : -44⁰F to 336⁰F
Vapor Density : Unknown
Solubility in Water : Slight to moderate.
Specific Gravity (H₂O=1) : 0.71
Evaporation Rate : Unknown
Appearance and Odor : Aerosol product.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point : -156⁰F
Flammable Limits in Air by Volume : Lower - 1 Upper - 13
Extinguishing Media : Foam, alcohol foam, CO₂, 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

Unusual Fire and Explosion Hazards : Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure 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 120⁰F. Exposure to open flame.
Incompatibility (Materials to Avoid) : Strong-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, dizziness, headache, nausea, fatigue, drowsiness, impaired co-ordination, eye watering.
Skin Contact : Contact may dry the skin; prolonged contact may cause irritation.
Eyes : Liquid or vapor can irritate.
Skin Absorption : Can be absorbed through skin. 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, seek medical advice and/or attention.

HEALTH HAZARD (ACUTE AND CHRONIC):

Acute : Eye, skin, and respiratory irritant. Narcotic in high concentrations. Severe overexposure may cause damage to the blood.
Chronic : Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system and other internal organ damage.

CARCINOGENICITY:

NTP : No
IARC Monographs : No
OSHA Regulated : No
Medical Conditions Generally Aggravated by Exposure : Liver and kidney disease, anemia, and coronary disease.

EMERGENCY AND FIRST AID PROCEDURES:

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|------------|--|
| Inhalation | : Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention. |
| Skin | : Remove contaminated clothing and wash before reuse. 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 120⁰F. 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

: Small pressurized containers of flammable products may be stored in areas suitable for ordinary combustibles with respect to construction, drainage, control of ignition sources and ventilation except that they should not be stored in basements.

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.

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| 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 gloves required for prolonged or repeated contact. |
| Eye Protection | : None under normal use; however, use of safety glasses with splashguards or full face Shield is recommended. |
| 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 | : 2 |
| Fire | : 4 |
| Reactivity | : 0 |

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