

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

KLEENS-IT ELECTRICAL CONTACT CLEANER (AEROSOL) Part # 57220

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Kleens-It Electrical Contact Cleaner
PRODUCT USE: Cleaner.

MANUFACTURER: Lloyds Laboratories Inc. **SUPPLIER:** Lloyds Laboratories Inc.

ADDRESS: 613 Neal Drive, Peterborough, Ontario, K9K 6X7
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EMERGENCY #: 1 800 361-6766 **EMERGENCY #:** 1 800 361-6766

SECTION II: INFORMATION ON INGREDIENTS

| Ingredients | CAS# | Wt% | OSHA-TWA | ACGIH-TWA | LD ₅₀ |
|------------------------------|----------|--------|---------------|---------------|------------------|
| Stabilized perchloroethylene | 127-18-4 | 65-100 | 1800 mg/m3 | 4508 mg/m3 | Not available |
| Carbon Dioxide | 124-38-9 | 3-7 | Not available | Not available | Not available |

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry: Eye, skin contact, ingestion.

Potential Health Effects:

Eye Contact: May cause pain disproportionate to the level of irritation to the eye tissue. Low vapour concentrations may cause eye irritation.

Skin Contact: Brief contact may cause skin irritation with local redness. Repeated and prolonged contact may cause burns. May cause drying and flaking of skin.

Inhalation: In confined or poorly ventilated conditions vapour can readily accumulate and cause unconsciousness and death in severe cases. Dizziness may occur at 200 ppm and progressive higher levels nausea, drunkenness and over 1000 ppm unconsciousness and death. A single brief (minutes) inhalation exposure to levels above 6000 ppm perchlorethylene may be fatal immediately. Alcohol consumed before or after exposure may increase adverse effects.

Ingestion: Very low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting, resulting in rapid absorption and injury to other body systems.

Chronic Effects:

Carcinogenicity: Lab studies have shown the incidence of tumors in certain strains of mice and rats. Other long term inhalation studies in rats failed to show tumorigenic response. Human data are limited and have not established an association between perchloroethylene exposure and cancer. Perchloroethylene is not believed to pose a measurable carcinogenic risk to man when handled as recommended.

Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found to be mutagenic. In laboratory studies effects on reproduction have been seen only at levels that would be toxic to the mother.

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Skin: Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

SECTION IV: FIRST AID MEASURES

Eye Contact: Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.

Skin Contact: Flush with water. Remove contaminated clothing and launder before reuse.

Inhalation: Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water, and then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

Note to physician: Rapid absorption may occur through the lungs if aspirated and cause systemic effects. If lavage is performed, suggest endotracheal and/or esophageal control.

SECTION V: FIRE FIGHTING MEASURES

Flammability: Not flammable.

Flash Point deg (C,TCC):

Means of Extinction: Use water spray to keep fire exposed containers cool. Dry chemicals, carbon dioxide. Fight fire from protected location or maximum possible distance.

Special Fire Hazards: Fire fighters should wear self contained breathing apparatus as for surrounding fire. Aerosol product- containers may rocket or explode.

Autoignition temperature: Not applicable.

Flame projection: Not flammable.

Sensitivity to static discharge: Not applicable.

Unusual Fire and Explosion Hazards. Aerosol product- containers may rocket or explode.

Hazardous decomposition products: Oxides of carbon, oxides of nitrogen.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations.

For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading. Dispose of by licensed waste disposal company.

Material will sink in water.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN.
Store in a dry, cool and well ventilated area. Protect from freezing. Do not

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puncture or incinerate. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120° F or 50°C. Do not pierce or burn, even after use.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Use Viton or Nitrile gloves.
Eye Protection: If eye contact is possible chemical splash goggles are recommended.
Respiratory Protection: Not normally required if good ventilation is maintained and below the exposure guidelines. In confined or poorly ventilated areas use an approved self contained breathing apparatus.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required to maintain airborne levels below the exposure guidelines. Lethal concentrations may exist in areas with poor ventilation.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

| | | | | | |
|---------------------------------|-------------------|------------------------------------|--|------------------------------------|----------------------------|
| Physical State: | Aerosol | Odour and Appearance: | Ethereal odour, Clear Colourless Liquid | Odour Threshold: | 40 ppm |
| Vapour Pressure (mm Hg): | 14.4 @ 20°C | Vapour Density (Air=1): | Approximately 5.83 | Boiling Point (°C): | 121°C Initial Component |
| % Volatile (Wt %): | 100% | Solubility in water (20°C): | Insoluble | Freezing Point (°C): | -22.3°C |
| pH: | Not applicable | Specific Gravity: | 1.635 @20°C | Evaporation Rate (nBuAc=1): | Approximately 2.1 |
| Coeff. Water/Oil Dist.: | Not applicable | | | | |

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable under normal conditions. Excessive heat or contamination could cause decomposition.
Incompatible Materials: Reducing agents, strong acids, strong caustics, iron and other metals.
Hazardous Decomposition Products: Oxides of carbon, Oxides of Nitrogen when heated.

SECTION XI: TOXICOLOGICAL INFORMATION

LD 50 values for individual components see section II.
Skin Sensitization (OECD Sec. 406) Non sensitizing.

SECTION XII: ECOLOGICAL INFORMATION

Based on stringent OECD guidelines this product would not be considered as readily biodegradable. But this does not mean that the material is not biodegradable under environmental conditions. Biodegradation may occur under anaerobic conditions. Biodegradation rate may increase in soil and water with acclimation.

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SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.
DO NOT dump into sewers, on the ground or any body of water.

SECTION XIV: TRANSPORTATION

T.D.G. Classification:

D.O.T. Classification: Please refer to Bill of lading for up to date shipping information.

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety

Regulations:

WHMIS Class:

Class D1B Poisonous substance, D2A. Class A compressed gas.

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations.

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372:

None of these ingredients are listed.

CERCLA – Section 102 (Reportable Quantity) 40 CFR 302:

Butane, Propane.

RCRA 40 CFR 261 (Subpart D):

None of the ingredients are listed.

CLEAN WATER ACT – Section 311 (Reportable Qty) 40 CFR 116:

None of these ingredients are listed.

CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C):

Perchloroethylene.

National Pollutant Release Inventory: Toxic Substances Control Act (TSCA):

Perchloroethylene.
All ingredients are registered on the Chemical Substances Inventory.

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL.

SECTION XVI: OTHER INFORMATION

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| Date: April 15, 2016 | Prepared By: Technical Services Group | Telephone: 1 800 361-6766 |
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Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the

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Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400)
or CSST in Montreal, Quebec (514-873-3990).