

SAFETY DATA SHEET

Lloyds Laboratories Inc.

Kleens-It Electrical Contact Cleaner – Part #57220

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Identification of Preparation: Kleens-It Electrical Contact Cleaner Aerosol – Part #57220
Date of Safety Data Sheet: June 6, 2018

Use of Preparation: Electrical contact cleaner.

Company Identification: Lloyds Laboratories Inc.
613 Neal Drive,
Peterborough,
Ontario
K9J 6X7

Company Telephone Number: 800 361-6766

24 Hour Telephone Number: CANUTEC 613-996-6666 or *666 for cell phone.

2. HAZARD IDENTIFICATION

Emergency Overview:

OSHA / WHMIS 2015 Hazards

Classification of substance or mixture

GHS-US/Canadian classification:

Gases under Pressure Compressed Gases - H280.

Skin Irritation Category 2 – H315.

STOT Single Exposure Narcotic Effects Category 3 – H336.

Carcinogenicity Category 1B – H350.

Hazardous to the Aquatic Environment Acute Hazard Category 2 - H401.

Label Elements

GHS Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Danger!

Hazard Statements (GHS):

H280: Contains gas under pressure, may explode if heated.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H350: May cause cancer.

H401: Toxic to aquatic life.

Precautionary Statements (GHS):

P201: Obtain special instructions before use.

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P202: Do not handle until all safety precautions have been read and understood.
P251: Pressurized container: Do not pierce or burn, even after use.
P260: Do not breathe dust/fume/gas/mist/vapour/spray.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed in this label, increase ventilation or leave the area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements (GHS):

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: If exposed or concerned: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P331: Do NOT induce vomiting.
P403: Store in a well-ventilated place.
P405: Store locked up.
P410: Protect from sunlight.

P412: Do not expose heat or store at temperatures exceeding 49 C/120 F. Exposure to high temperature may cause can to burst.

Supplemental information

When exposed to extreme heat or hot surfaces, vapours may decompose to harmful or fatal corrosive gases such as hydrogen bromide, hydrogen chloride and possibly phosgene.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description: Chemical.

Ingredient	CAS#	% by Wt	Classification
Tetrachloroethylene	127-18-4	60-100	Gases under Pressure Compressed Gas – H280 Skin Corrosion/Irritation Category 2 – H315 Serious Eye Damage/Eye Irritation Category 2A - H319 Carcinogenicity Category 1B – H350 Reproductive Toxicity Category 1B – H360 STOT Single Exposure Narcotic Effects Category 3 – H336 STOT Repeated Exposure (kidney, liver, nervous system) Category 2 – H373
Carbon Dioxide	124-38-9	1-3	Gases under Pressure Compressed Gas – H280

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4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms persist consult physician. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Edema. Jaundice. Prolonged exposure may cause chronic effects.
Eye Contact:	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin Contact:	Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
Ingestion:	Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personnel. Never give anything to an unconscious person. Get medical aid.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray or fog, foam, dry chemical, CO2.
Unsuitable extinguishing media:	None known.
Special exposure hazards:	Fire or excessive heat may produce hazardous decomposition products. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapours may decompose to harmful or fatal corrosive gases such as hydrogen bromide, hydrogen chloride and possibly phosgene.
Special safety equipment: Fire and explosion:	Self-contained positive pressure breathing apparatus and protective clothing. Under fire conditions closed containers may rupture or explode. Bursting aerosol containers may be propelled from fire at high speed. Vapours may travel long distances along the ground before igniting/flashing back vapour to source.
Further information:	Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe mist.

For Non-Emergency Personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any powder spills with dikes to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections: See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Handling

Advice on safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Storage

Requirements for storage areas and containers:

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Personal protective equipment.
Respiratory protection:	Use local exhaust or dilution ventilation.
Hand protection:	Chemical resistant gloves.
Eye protection:	Safety goggles.
Skin protection:	Use body-covering clothing.
Working hygiene:	Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.

Exposure Guidelines:

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Carbon Dioxide CAS #124-38-9	PEL	9000 mg/m ³ 5000 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Tetrachloroethylene CAS #127-18-4	Ceiling	200 ppm
		TWA 100 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property	Value	Odour	Remarks/Method
Physical State	Liquid.		
Appearance	Clear.	Odour	Solvent scent.
Colour	Colourless.	Odour Threshold	No data available.
pH	Not applicable (solvent).	Remarks/Method	
Melting/Freezing Point	No data available.	None known.	
Boiling Point/Range	No data available.	None known.	
Flash Point	No data available.	None known.	
Evaporation Rate	Similar.	None known.	
Flammability (solid, gas)	Not flammable.	None known.	
Flammability Limit in Air:			
Upper Limit	No data available.	None known.	
Lower Limit	No data available.	None known.	
Vapour Pressure	1352.4 kPa at 20 C.	None known.	
Vapour density	No data available.	None known.	
Specific Gravity	1.62 g/cm ³ .		
Water Solubility	Negligible.	None known.	
Solubility Other Solvents	Soluble.	None known.	
Partition Coefficient:			
n-octanol/water	No data available.	None known.	
Autoignition temperature	No data available.	None known.	
Decomposition	No data available.	None known.	
Temperature			
Kinematic Viscosity	No data available.	None known.	
Dynamic Viscosity	No data available.	None known.	
Explosive Properties	No data available.	None known.	
Oxidizing Properties	No data available.	None known.	
Other Properties:			
Softening Point	No data available.		
VOC Content %	No data available.		
Particle Size	Liquid.		
Particle Size Distribution	No data available.		

10. STABILITY AND REACTIVITY

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Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen bromide, hydrogen chloride and possibly phosgene.
Hazardous decomposition products	Hydrogen chloride. Hydrogen bromide. Chlorine. Phosgene. Carbon oxides.
Materials to avoid	Acids. Bases. Strong oxidizing agents. Powdered metal. Sodium. Amines. Oxygen. Peroxide.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Narcotic effects.

LD/LC50 values relevant for classification

Tetrachloroethylene CAS# 127-18-4:

LD50 Dermal Rabbit: > 3228 mg/kg.

LC50 Acute Inhalation Rat: 3786 ppm, 4 hours *Vapour*.

LD50 Oral Rat : 2629 mg/kg.

* Estimates for product may be based on additional component data not shown.

Routes of Entry Inhalation, ingestion, eye or skin contact.

On the skin: Causes skin irritation.

On the eye: Causes serious eye irritation.

Inhalation: May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Ingestion: Single dose oral toxicity is considered to be extremely low. Swallowing large amounts may cause injury if aspirated into the lungs. This may be rapidly absorbed through the lungs and result in injury to other body systems.

Symptoms related to the physical, chemical and toxicological characteristics:

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Skin irritation. May cause redness and pain. Edema. Jaundice.

Respiratory Sensitization: Not a respiratory sensitizer.

Skin Sensitization: This product is not expected to cause skin sensitization.

Additional toxicological information:

Carcinogenicity: May cause cancer.

Chemical Name CAS Number IARC NTP OSHA:

IARC Monographs. Overall Evaluation of Carcinogenicity

Tetrachloroethylene CAS# 127-18-4: 2A Probably carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Tetrachloroethylene CAS# 127-18-4: Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Chronic Effects:

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No data available for mixture.

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Reproductive: May damage fertility or the unborn child.

Carcinogen: No data available for mixture.

Target Organ Effects:

STOT Single Exposure: May cause drowsiness and dizziness.

STOT Repeated Exposure: May cause damage to organs (kidney, liver, nervous system) through prolonged or repeated exposure.

Aspiration Hazard: Not an aspiration hazard.

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

Toxicity:	Not classified.
Persistence and Degradability:	Not available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	Not available.
Other Adverse Effects:	
Other Information:	Avoid release to the environment.
Aquatic Toxicity:	No data available.
Toxicity to algae, fish invertebrates:	No data available.
Biodegradation:	No data available.

13. DISPOSAL

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

Empty Containers: Do not pierce, drill or burn even after use. Container under pressure.

14. TRANSPORTATION INFORMATION

Canadian TDG (Road & Rail): Regulated material (limited quantity).

Shipping Name: Aerosols.

Hazard class: 2.2.

Identification number: UN 1950.

U.S. Department of Transportation (DOT): Regulated material (limited quantity).

Shipping Name: Aerosols.

Hazard class: 2.2.

Identification number: UN 1950.

Water Transportation (IMO): Regulated material (limited quantity).

Shipping Name: Aerosols.

Hazard class: 2.2.

Identification number: UN 1950.

Air Transportation (IATA): Regulated material (limited quantity).

Shipping Name: Aerosols.

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Hazard class: 2.2.

Identification number: UN 1950.

15. REGULATION

Occupational Health & Safety Regulations:

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

International Inventories

TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	-
PICCS	-
AICS	Complies.

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List.

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances.

ENCS - Japan Existing and New Chemical Substances.

IECSC - China Inventory of Existing Chemical Substances.

KECL - Korean Existing and Evaluated Chemical Substances.

PICCS - Philippines Inventory of Chemicals and Chemical Substances.

AICS - Australian Inventory of Chemical Substances.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

HMIS III Rating

Health: 3 Serious Hazard.

Flammability: 0 Minimal Hazard.

Physical: 0 Minimal Hazard.

Personal Protection: B.

Date: June 6, 2018

SDS: Lloyds Laboratories Inc. Kleens It Electrical Contact Cleaner Part #57220

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SDS (GHS HazCom 2012 and WHMIS 2015).

16. OTHER INFORMATION

Prepared By: Technical Department

Issuing Date: December 16, 2015

Revision Date: June 6, 2018

Revision Notes: Format, etc. updates, Hazard Identification, Composition, Physical and Chemical Properties, Exposure Controls, Transportation and Regulatory sections updated.

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However, we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet