



SAFETY DATA SHEET

Lloyds Laboratories Inc. Kleens-It Industrial No Residue Cleaner/Degreaser Aerosol #59120

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

Identification of Preparation: Kleens-It Industrial No Residue Cleaner/ Degreaser Aerosol #59120.
Date of Safety Data Sheet: November 24, 2022.

Use of Preparation: Cleaner/ Degreaser.

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

Company Emergency Telephone Number Emergency Phone: 705 876 9997

2. HAZARD IDENTIFICATION

Emergency Overview:

OSHA / WHMIS 2015 Hazards

Classification of substance or mixture

GHS-US/Canadian classification:

GHS Hazards:

Flammable Aerosols Category 1 H222

Flammable Liquids Category 4 H227

Gases under Pressure Compressed Gases H280

Skin Irritation Category 2 H315

Serious Eye Damage Category 2A H319

STOT Single Exposure Respiratory Tract Irritation Category 3 H335

STOT Single Exposure Narcotic Effects Category 3 H336

Carcinogenicity Category 1B H350

Reproductive Toxicity Category 2 H361

STOT Repeated Exposure Category 2 H373

Hazardous to the Aquatic Environment, Acute Hazard Category 2 H401

Label Elements

GHS Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Danger

Hazard Statements (GHS):



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H222: Extremely flammable aerosol
H227: Combustible liquid.
H280: Contains gas under pressure, may explode if heated.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H350: May cause cancer.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolong or repeated exposure.
H401: Toxic to aquatic life.

Precautionary Statements (GHS):

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, and direct sunlight.
P211: Do not spray on an open flame or other ignition source.
P243: Take precautionary measures against static discharge.
P252: Do not pierce or burn, even after use.
P260: Do not breathe dust/fume/gas/mist/vapor/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P271: Use only outdoors or in a well-ventilated 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.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P321: Specific treatment (see supplemental first aid instructions on this label).
P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

Supplemental information

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.



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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

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 personal. 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, vapors may decompose to harmful or fatal corrosive gases such as hydrogen bromide, hydrogen chloride and possibly phosgene.



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Special safety equipment: Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion: 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 vapor 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.

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 vapor. 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:



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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:

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

Physical State	Liquid		
Appearance	Clear	Odour	Solvent scent
Colour	Colourless	Odour Threshold	No data available
Property		Remarks/Method	
pH	Not applicable (solvent)	None known	
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	



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Lower Limit	No data available	None known
Vapour Pressure	1352.4 kPa @ 20 C	None known
Vapour density	No data available	None known
Specific Gravity	1.61 g/cm ³ @15.5C	
Water Solubility	Negligible	None known
Solubility Other Solvents	Not 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

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed. 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.
Conditions to avoid	
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.



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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.

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.



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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

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



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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

SDS (GHS HazCom 2012 and WHMIS 2015)

16. OTHER INFORMATION

Prepared By: Technical Department

Issuing Date: November 24, 2022.

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