

Issue date 18-Mar-2021

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Revision Number 2

1. IDENTIFICATION

Product identification

Product identifier	Termi-Kleen Electronic Equipment Cleaner
Other means of identification	DY60035203
Recommended use	Cleaner
Restrictions on use	For industrial use only

Supplier

Corporate Headquarters:
Lawson Products, Inc.
8770 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

Website www.lawsonproducts.com

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS 2015 and GHS Regulations.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Gases under pressure	Dissolved gas

Symbol


Signal word DANGER

Hazard statements H280 - Contains gas under pressure; may explode if heated
H315 - Causes skin irritation

H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H341 - Suspected of causing genetic defects
H304 - May be fatal if swallowed and enters airways

Precautionary statements

General

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use.

Prevention

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, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing and eye/face protection
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area

Response

General

P308 + P313 - IF exposed or concerned: Get medical advice/attention

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell

Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting

Storage

P405 - Store locked up
P410 - Protect from sunlight
P403 - Store in a well-ventilated place

Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Hazard(s) Not Otherwise Classified (HNOC)

None known.

Physical Hazards Not Otherwise Classified (PHNOC)

None known.

Unknown acute toxicity

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Trichloroethylene	79-01-6	30-60
Tetrachloroethylene	127-18-4	30-60
Carbon dioxide	124-38-9	2-4

4. FIRST-AID MEASURES

Necessary first-aid measures

- Inhalation** Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Center if you feel unwell.
- Ingestion** Do NOT induce vomiting. Call a POISON CENTER or doctor.
- Skin contact** Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
- Eye contact** Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Most important symptoms (acute) Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause drowsiness or dizziness.

Most important symptoms (over-exposure) Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

Indication of any immediate medical attention and special treatment needed Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** Not applicable.
- Specific hazards** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause containers to burst.
- Special protective equipment for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** Use personal protection recommended in Section 8. Remove all sources of ignition.
- Methods and materials for containment and cleaning up** Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. This material and its container must be disposed of as hazardous waste.

7. HANDLING AND STORAGE

Precautions for safe handling

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Store locked up.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. See section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	California - PELs	ACGIH OEL (TWA)	NIOSH - TWA
Trichloroethylene	100 ppm TWA	25 ppm PEL; 135 mg/m ³ PEL	10 ppm TWA	
Tetrachloroethylene	100 ppm TWA	25 ppm PEL; 170 mg/m ³ PEL	25 ppm TWA	
Carbon dioxide	5000 ppm TWA 9000 mg/m ³ TWA	5000 ppm PEL; 9000 mg/m ³ PEL	5000 ppm TWA	5000 ppm TWA 9000 mg/m ³ TWA

Appropriate engineering controls

Use only with adequate ventilation. Concentrated vapors of this product are heavier than air and will collect in low areas, pits, storage tanks and other confined spaces. Do not enter those areas. If current ventilation practices are not adequate in maintaining airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

Individual protection measures, such as personal protective equipment

Eye protection

ANSI approved safety glasses are recommended to prevent accidental eye contact.

Skin and body protection

Chemical resistant gloves. Nitrile gloves. Use of an impervious apron is recommended.

Respiratory protection

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

Hygiene measures

Wash hands after handling the product.

Canadian Province Occupational Exposure Limits

Chemical name	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
Trichloroethylene	50 ppm TWA 269 mg/m ³ TWA	10 ppm TWA	10 ppm TWA	50 ppm TWA 269 mg/m ³ TWA	10 ppm TWA	10 ppm TWA	10 ppm TWA	10 ppm TWA	50 ppm TWAEV 269 mg/m ³ TWAEV	50 ppm TWA
Tetrachloroethylene	25 ppm TWA 170 mg/m ³ TWA	25 ppm TWA	25 ppm TWA	25 ppm TWA 170 mg/m ³ TWA	25 ppm TWA	25 ppm TWA	25 ppm TWA	25 ppm TWA	25 ppm TWAEV 170 mg/m ³ TWAEV	25 ppm TWA
Carbon dioxide	5000 ppm TWA 9000 mg/m ³ TWA	5000 ppm TWA	5000 ppm TWA	5000 ppm TWA 9000 mg/m ³ TWA	5000 ppm TWA	5000 ppm TWA	5000 ppm TWA	5000 ppm TWA	5000 ppm TWAEV 9000 mg/m ³ TWAEV	5000 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Aerosol

Color	Clear
Odor	Solvent
Odor threshold	Not available
pH	Not available
Melting point/range °C	Not available
Melting point/range °F	Not available
Boiling point/range °C	87 °C
Boiling point/range °F	188 °F
Flash point °C / °F	No data available
Evaporation rate	No data available
Flammability (Solid, Gas)	This product is not flammable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	59 mmHg @ 25°C
Vapor density	4.5
Relative density	1.52
Solubility	Practically insoluble in water
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	Stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid heat, sparks, and other sources of ignition. Exposure to temperatures above 120F may cause bursting.

Incompatible materials Incompatible with strong acids and bases. May attack certain plastics, rubber, & coatings. Incompatible w/ strong oxidizers & caustics, chemically active metal, such as Aluminum, magnesium powder, sodium, potassium, and lithium.

Hazardous decomposition products carbon oxides. Chlorine. Phosgene. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Dermal. Inhalation. Ingestion. Eyes.

Symptoms May cause eye irritation. eye pain, redness, and watering. Ingestion may result in nausea, vomiting, diarrhea and pain. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal. Skin irritation. Redness. Prolonged skin contact may defat the skin and produce dermatitis.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Trichloroethylene	26 mg/L Rat	= 4920 mg/kg Rat 29000 mg/kg Rabbit	4920 mg/kg Rat = 29000 mg/kg Rabbit
Tetrachloroethylene	27.8 mg/L Rat	> 3228 mg/kg (Rabbit)	2629 mg/kg Rat
Carbon dioxide	-	-	-

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA Carcinogens	NTP
Trichloroethylene	A2	Group 1 Group 3	Present	Known carcinogen
Tetrachloroethylene	A3	Group 2A	Present	Reasonably Anticipated Carcinogen
Carbon dioxide	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Trichloroethylene	-	IARC 1 ACGIH A2	ACGIH A2	-	ACGIH A2	-
Tetrachloroethylene	-	IARC 2A	ACGIH A3	ACGIH A3	ACGIH A3	C3 Carcinogen
Carbon dioxide	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish LC50
Trichloroethylene	=175mg/L <i>Pseudokirchneriella subcapitata</i> 96h =450mg/L <i>Desmodesmus subspicatus</i> 96h	31.4 - 71.8mg/L <i>Pimephales promelas</i> 96h 39 - 54mg/L <i>Lepomis macrochirus</i> 96h
Tetrachloroethylene	>500mg/L <i>Pseudokirchneriella subcapitata</i> 96h	11.0 - 15.0mg/L <i>Lepomis macrochirus</i> 96h 12.4 - 14.4mg/L <i>Pimephales promelas</i> 96h 4.73 - 5.27mg/L <i>Oncorhynchus mykiss</i> 96h 8.6 - 13.5mg/L <i>Pimephales promelas</i> 96h
Carbon dioxide	-	-

Persistence and degradability Component(s) of this product are not biodegradable.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
Trichloroethylene 79-01-6	79-01-6	2.53 at 20 °C (at pH 7, ECHA_API)	17 - 90 dimensionless species: fish
Tetrachloroethylene 127-18-4	127-18-4	2.53 at 23 °C (at pH 7, ECHA_API)	25.8 - 77.1 dimensionless BCF method: OECD Guideline 305 C
Carbon dioxide 124-38-9	124-38-9	-	no bioaccumulation

Mobility in soil This product is mobile in soil.

Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

Disposal information The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Contaminated packaging Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its containers must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2(6.1)
 Subsidiary Risk
 Packing group
 Special Provisions LTD QTY

TDG

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2(6.1)
 Packing group
 Special Provisions LTD QTY

IATA

ID-No UN1950
 Proper shipping name Aerosols, non-flammable, toxic, containing substances in division 6.1 packing group III
 Hazard Class(es) 2.2(6.1)
 Subsidiary Risk
 Packing group
 ERG Code 126
 Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
 Proper shipping name Aerosols, Toxic
 Hazard Class(es) 2.2(6.1)
 Packing group
 EmS No F-D, S-U
 Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Trichloroethylene	79-01-6	-	-	-
Tetrachloroethylene	127-18-4	X	X	X
Carbon dioxide	124-38-9	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations

U.S. state Right-to-Know regulations

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Trichloroethylene	79-01-6	X	X	X
Tetrachloroethylene	127-18-4	X	X	X

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Carbon dioxide	124-38-9	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Trichloroethylene	79-01-6	Carcinogen Developmental Male Reproductive
Tetrachloroethylene	127-18-4	Carcinogen
Carbon dioxide	124-38-9	-

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Trichloroethylene	79-01-6	100 lb 45.4 kg 1 lb 0.454 kg	0.1 %
Tetrachloroethylene	127-18-4	100 lb 45.4 kg 1 lb 0.454 kg	0.1 %
Carbon dioxide	124-38-9	-	-

US EPA SARA 311/312 hazardous categorization

Acute Health Hazard
Chronic Health Hazard

TSCA and Canadian Inventories

Chemical name	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification	DSL	NDSL
Trichloroethylene	X	X	X	-
Tetrachloroethylene	X	-	X	-
Carbon dioxide	X	-	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health 2
Flammability 1
Instability 0

HMIS

Health	2
Flammability	1
Physical hazards	0
Personal protection	C

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

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Revision note

Key to abbreviations

- ACGIH (American Conference of Governmental Industrial Hygienists)
- ATE (Average Toxicity Estimate)
- DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
- HMIS (Hazardous Materials Identification System)
- IARC (International Agency for Research on Cancer)
- IATA (International Air Transport Association)
- IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
- NFPA (National Fire Protection Association)
- NTP (National Toxicology Program)
- OEL (Occupational Exposure Level)
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)
- PEL (Permissible Exposure Limit)
- TSCA (Toxic Substance Control Act)
- USEPA (United States Environmental Protection Agency)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of Safety Data Sheet