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Revision Number 3

1. IDENTIFICATION

Product identification

Product identifier	Lawson Brake Klean Non-Flammable Brake Parts Cleaner
Other means of identification	61416
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.

Carcinogenicity	Category 2
Gases under pressure	Compressed gas

Symbol



Signal word WARNING

Hazard statements H280 - Contains gas under pressure; may explode if heated
H351 - Suspected of causing cancer

Precautionary statements

medical attention and special treatment needed aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards Contents under pressure.

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. Stop leak if you can without risk. In the case of fire, do not attempt to move containers out of fire zone. Cool drums with water spray. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn out. Cool containers exposed to flames with water until well after the fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Keep unnecessary and unprotected personnel from entering the area. Keep people away from and upwind of spill/leak. Keep out of low areas. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear self-contained breathing apparatus. Do not touch or walk through spilled material. Ventilate the area. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Eliminate all sources of ignition. Refer to protective measures listed in sections 7 and 8. Keep combustibles (wood, paper, oil, etc) away from spilled material. Stop leak if you can without risk. Evacuate area of unprotected and unnecessary personnel. Prevent entry into waterways, sewers, basements, and confined areas. See section 1 for emergency contact information and section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for 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 eat, drink or smoke when using this product. Do not cut, drill, grind, or weld near containers. Ground and bond containers when transferring material. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not re-use empty containers. Use in well ventilated areas. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Wear personal protective equipment. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities Store locked up. Containers can build up pressure if exposed to heat (fire). Do not expose to temperatures above 100 degrees F for extended periods of time. Do not puncture, incinerate, or crush. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep containers tightly closed in a cool, well-ventilated place. Do not store or use near incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

Chemical name	OSHA PEL (TWA)	California - PELs	ACGIH OEL (TWA)	NIOSH - TWA
	9000 mg/m ³ TWA	mg/m ³ PEL		9000 mg/m ³ TWA

Appropriate engineering controls

Ensure adequate ventilation. As a rule, at least 10 air changes per hour are recommended at the workplace. Provide adequate ventilation to keep exposure limits below PEL. If current ventilation practices are not adequate in maintaining airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required. A safety shower and eye wash station should be available for emergency use.

Individual protection measures, such as personal protective equipment

Eye protection

Wear safety glasses with side shields.

Skin and body protection

Chemical resistant apron. Chemical resistant gloves. The following glove(s) are recommended to prevent prolonged or repeated contact: Butyl rubber gloves. Wear appropriate thermal protective clothing when necessary.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

Hygiene measures

When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Washing hands, face, neck and arms thoroughly before eating or smoking is recommended. Wash contaminated clothing before reuse.

Canadian Province Occupational Exposure Limits

Chemical name	AB	BC	MB	NB	NL	NS	ON	PE	QC	SK
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 TWA 170 mg/m ³ TWA 170 mg/m ³ TWA	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 TWA 9000 mg/m ³ TWA 9000 mg/m ³ TWA	5000 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Aerosol
Color	Colorless
Odor	Characteristic
Odor threshold	Not available
pH	Not available
Melting point/range °C	Not available
Melting point/range °F	Not available
Boiling point/range °C	121 °C
Boiling point/range °F	Not available

Flash point °C / °F	Not available
Evaporation rate	Not available
Flammability (Solid, Gas)	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	80 PSI @ 70 F
Vapor density	Not available
Relative density	No data available
Solubility	Not available
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	Not available

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal conditions of use.
Conditions to avoid	Incompatible materials. Do not store at elevated temperatures.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Inhalation. Eyes.
Symptoms	Dizziness. Headache. Nausea. May cause irritation of the nose and throat. Causes irritation to the mucous membranes. Eye irritation. Skin irritation.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
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
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
Tetrachloroethylene	-	IARC 2A	ACGIH A3	ACGIH A3	ACGIH A3	C3 Carcinogen
Carbon Dioxide	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish LC50
Tetrachloroethylene	>500mg/L Pseudokirchneriella subcapitata 96h	11.0 - 15.0mg/L Lepomis macrochirus 96h 12.4 - 14.4mg/L Pimephales promelas 96h 4.73 - 5.27mg/L Oncorhynchus mykiss 96h 8.6 - 13.5mg/L Pimephales promelas 96h
Carbon Dioxide	-	-

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
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Chemical name	CAS-No	Partition coefficient (log Kow)	Bioconcentration factor (BCF)
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 Not available.

Other adverse effects No adverse affects expected

13. DISPOSAL CONSIDERATIONS

Disposal information Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Contents under pressure. Do not puncture, incinerate, or crush. Do not flush to surface water or sanitary sewer system. Do not contaminate ponds, waterways or ditches with chemical or used container. Discard container or liner in accordance with federal, state, and local regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal. Do not reuse containers. Follow label cautions even after the container is empty since empty containers could retain product residues.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT
 ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Marine pollutant Yes.
 Special Provisions LTD QTY

TDG
 ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Marine pollutant Yes.
 Special Provisions LTD QTY

IATA
 ID-No UN1950
 Proper shipping name Aerosols, non-flammable
 Hazard Class(es) 2.2
 Special Provisions LTD QTY

IMDG/IMO
 ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Marine pollutant Yes
 Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
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
Tetrachloroethylene	127-18-4	X	X	X
Carbon Dioxide	124-38-9	X	X	X

California Prop. 65

WARNING: This product contains a chemical(s) known to the state of California to cause cancer

Chemical name	CAS-No	California Prop. 65
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
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

Chronic Health Hazard
Sudden Release of Pressure 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
Tetrachloroethylene	X	-	X	-
Carbon Dioxide	X	-	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health	Not available
Flammability	Not available
Instability	Not available

HMIS

Health	Not available
Flammability	Not available
Physical hazards	Not available

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).

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Revision note

Key to abbreviations

- ACGIH (American Conference of Governmental Industrial Hygienists)
- ATE (Average Toxicity Estimate)
- DSL/NDL (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