

Issue date 25-Jul-2018

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Revision Number 1

1. IDENTIFICATION

Product identification

Product identifier Lawson C-Thru Glass and Hard Surface Cleaner
 Other means of identification 19951
 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)

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Flammable aerosols	Category 1
Gases under pressure	Liquefied Gas

Symbol



Signal word DANGER

Hazard statements H222 - Extremely flammable aerosol
 H280 - Contains gas under pressure; may explode if heated

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	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
Response	
Skin	P264 - Wash hands thoroughly after handling
Storage	P410 - Protect from sunlight P403 - Store in a well-ventilated place P412 - Do not expose to temperatures exceeding 50 °C/122 °F
Disposal	P501 - Dispose of contents/containers in accordance with local regulations
Hazard(s) Not Otherwise Classified (HNOC)	None known.
Physical Hazards Not Otherwise Classified (PHNOC)	None known.
Unknown acute toxicity	No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Isopropyl Alcohol	67-63-0	2.5-10
Propylene Glycol Propyl Ether	1569-01-3	1-2.5
Propane	74-98-6	1-2.5
Butane	106-97-8	1-2.5
Ammonia	7664-41-7	0.1-1

Chemical Additions Other components below reportable levels. 90 - 100 %

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Necessary first-aid measures

General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	In the unlikely even of swallowing contact a physician or poison control center. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head so low so that stomach content doesn't get into the lungs.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. Seek medical attention if irritation persists.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Seek medical attention if irritation persists.

Most important symptoms (acute)	Direct contact with the eyes may cause temporary irritation.
Most important symptoms (over-exposure)	Not available.
Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry Chemical, Carbon Dioxide, Foam or Water Fog.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards	Extremely Flammable Aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Wear suitable protective equipment. Stop leak if you can without risk. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Evacuate area of unprotected and unnecessary personnel. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Wear personal protective clothing and equipment, see section 8.
Methods and materials for containment and cleaning up	Refer to attached SDS and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc) away from spilled material. Stop leak if you can without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Prevent entry into waterways, sewers, basements, and confined areas. Following product recovery, flush area with water. Small Spill: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling	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, drill, grind, or weld near containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid prolonged exposure. Use only outdoors
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or in a well-ventilated area. Put on appropriate personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Beware: Aerosol is pressurized. Store at temperatures not exceeding 50 °C/ 122 °F. Do not puncture, incinerate, or crush. Keep away from open flames, hot surfaces and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a cool, dry, and well-ventilated place. Refrigeration recommended. Do not store or use near incompatible materials. See section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Isopropyl Alcohol	400 ppm TWA 980 mg/m ³ TWA	400 ppm STEL 200 ppm TWA	500 ppm STEL 1225 mg/m ³ STEL 400 ppm TWA 980 mg/m ³ TWA
Propylene Glycol Propyl Ether	-	-	-
Propane	1000 ppm TWA 1800 mg/m ³ TWA	-	1000 ppm TWA 1800 mg/m ³ TWA
Butane	-	1000 ppm STEL	800 ppm TWA 1900 mg/m ³ TWA
Ammonia	50 ppm TWA 35 mg/m ³ TWA	35 ppm STEL 25 ppm TWA	35 ppm STEL 27 mg/m ³ STEL 25 ppm TWA 18 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. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other controls to keep air containment concentration below current applicable OSHA permissible exposure limit or ACGIH TLV limit, and volatiles below lower explosive limit. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye protection

Safety glasses with side-shields. Goggles.

Skin and body protection

Chemical resistant gloves. Nitrile gloves are recommended. Wear suitable protective clothing. Wear appropriate thermal protective clothing when necessary.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Routinely wash work clothing and protective equipment to remove contaminants.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland and Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Isopropyl Alcohol	400 ppm STEL	400 ppm STEL	200 ppm TWA	500 ppm STEL	400 ppm STEL	400 ppm STEL	400 ppm STEL	400 ppm STEL	500 ppm STEL	400 ppm STEL

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland and Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
	984 mg/m ³ STEL 200 ppm TWA 492 mg/m ³ TWA	200 ppm TWA	400 ppm STEL	1230 mg/m ³ STEL 400 ppm TWA 983 mg/m ³ TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	200 ppm TWA	1230 mg/m ³ STEV 400 ppm TWAEV 985 mg/m ³ TWAEV	200 ppm TWA
Propylene Glycol Propyl Ether	-	-	-	-	-	-	-	-	-	-
Propane	1000 ppm TWA	1000 ppm TWA 1000 ppm TWA	-	-	-	-	-	-	1000 ppm TWAEV 1800 mg/m ³ TWAEV	1250 ppm STEL 1000 ppm TWA 1000 ppm TWA
Butane	1000 ppm TWA	750 ppm STEL 600 ppm TWA 1000 ppm TWA	1000 ppm STEL	800 ppm TWA 1900 mg/m ³ TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm STEL	1000 ppm STEL	800 ppm TWAEV 1900 mg/m ³ TWAEV	1250 ppm STEL 1000 ppm TWA 1000 ppm TWA 1000 ppm TWA
Ammonia	35 ppm STEL 24 mg/m ³ STEL 25 ppm TWA 17 mg/m ³ TWA	35 ppm STEL 25 ppm TWA	25 ppm TWA 35 ppm STEL	35 ppm STEL 24 mg/m ³ STEL 25 ppm TWA 17 mg/m ³ TWA	35 ppm STEL 25 ppm TWA	35 ppm STEL 25 ppm TWA	35 ppm STEL 25 ppm TWA	35 ppm STEL 25 ppm TWA	35 ppm STEV 24 mg/m ³ STEV 25 ppm TWAEV 17 mg/m ³ TWAEV	35 ppm STEL 25 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Gas Aerosol containing a liquefied gas
Color	No information available
Odor	Not available
Odor threshold	Not available
pH	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Boiling point/range °C	100 °C
Boiling point/range °F	212 °F
Flash point °C	-21.4
Flash point °F	-6.5
Flash point method used	based on propellant
Evaporation rate	No data available
Flammability (Solid, Gas)	No information available

Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	23.01 PSI @ 70 F estimated
Vapor density	No data available
Relative density	0.97
Solubility	No information available
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature °C	245 °C
Autoignition temperature °F	473 °F
Decomposition temperature °C	No data available
Decomposition temperature °F	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reactions under normal conditions of use.
Chemical stability	This material is considered stable.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Incompatible materials. Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Eyes. Inhalation.
Symptoms	Direct contact with the eyes may cause temporary irritation.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause skin irritation.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Isopropyl Alcohol	= 72600 mg/m ³ (Rat) 4 h	= 4059 mg/kg (Rabbit)	= 1870 mg/kg (Rat)
Propylene Glycol Propyl Ether	-	= 3550 mg/kg (Rabbit) = 4	= 2490 mg/kg (Rat) = 2504

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
		mL/kg (Rabbit)	mg/kg (Rat) = 3250 µL/kg (Rat)
Propane	> 800000 ppm (Rat) 15 min	-	-
Butane	= 658 g/m ³ (Rat) 4 h	-	-
Ammonia	= 2000 ppm (Rat) 4 h	-	= 350 mg/kg (Rat)

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 RTK Carcinogens	NTP
Isopropyl Alcohol	A4	Group 1 Group 3	Listed	-
Propylene Glycol Propyl Ether	-	-	-	-
Propane	-	-	-	-
Butane	-	-	-	-
Ammonia	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Isopropyl Alcohol	-	-	ACGIH A4	-	ACGIH A4	-
Propylene Glycol Propyl Ether	-	-	-	-	-	-
Propane	-	-	-	-	-	-
Butane	-	-	-	-	-	-
Ammonia	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical name	Algae/aquatic plants	Fish
Isopropyl Alcohol	1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50 9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static
Propylene Glycol Propyl	-	-

Chemical name	Algae/aquatic plants	Fish
Ether		
Propane	-	-
Butane	-	-
Ammonia	-	0.44: 96 h Cyprinus carpio mg/L LC50 1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50 0.73 - 2.35: 96 h Pimephales promelas mg/L LC50 5.9: 96 h Pimephales promelas mg/L LC50 static 1.5: 96 h Poecilia reticulata mg/L LC50 1.19: 96 h Poecilia reticulata mg/L LC50 static

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Isopropyl Alcohol 67-63-0	67-63-0	0.05 25 °C
Propylene Glycol Propyl Ether 1569-01-3	1569-01-3	-
Propane 74-98-6	74-98-6	2.3 <=2.8
Butane 106-97-8	106-97-8	2.89 <=2.8
Ammonia 7664-41-7	7664-41-7	-1.14 25 °C

Mobility in soil Not available.

Other adverse effects No adverse affects expected

13. DISPOSAL CONSIDERATIONS

Disposal information Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate, or crush. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

Contaminated packaging Dispose in accordance with local, state and federal regulations. Empty containers or liners may retain some product residues. This material and its containers must be disposed of in a safe way. Empty containers should be taken for local recycling, recovery or waste disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not reuse containers.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.1
 Special Provisions LTD QTY

TDG

ID-No UN1950

Proper shipping name Aerosols
 Hazard Class(es) 2.1
 Special Provisions LTD QTY

IATA

ID-No UN1950
 Proper shipping name Aerosols, flammable
 Hazard Class(es) 2.1
 Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.1
 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
Isopropyl Alcohol	67-63-0	-	-	-
Propylene Glycol Propyl Ether	1569-01-3	-	-	-
Propane	74-98-6	-	-	-
Butane	106-97-8	-	-	-
Ammonia	7664-41-7	X	-	X X

Special Precautions

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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
Isopropyl Alcohol	67-63-0	X	X	X
Propylene Glycol Propyl Ether	1569-01-3	-	-	-
Propane	74-98-6	X	X	X
Butane	106-97-8	X	X	X
Ammonia	7664-41-7	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Isopropyl Alcohol	67-63-0	-
Propylene Glycol Propyl Ether	1569-01-3	-
Propane	74-98-6	-
Butane	106-97-8	-
Ammonia	7664-41-7	-

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Isopropyl Alcohol	67-63-0	-	1.0 %
Propylene Glycol Propyl Ether	1569-01-3	-	-
Propane	74-98-6	-	-
Butane	106-97-8	-	-
Ammonia	7664-41-7	100 lb 45.4 kg	1.0 %

US EPA SARA 311/312 hazardous categorization

Sudden Release of Pressure Hazard
Fire Hazard

International inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)), Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Isopropyl Alcohol	X	X	-
Propylene Glycol Propyl Ether	X	X	-
Propane	X	X	-
Butane	X	X	-
Ammonia	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).

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