



Material Safety Data Sheet

Revision Date 08-Jul-2013

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 19951
Product name C-Thru Glass Cleaner
Recommended Use Cleaner

Supplier Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritant. May be harmful if swallowed.

Aggravated Medical Conditions

None Known

Principal Routes of Exposure

Eyes. Ingestion. Inhalation. Skin absorption. Skin contact.

Potential health effects

Eyes Contact with eyes may cause irritation. Extreme overexposure may cause. Burn. Frostbite.

Skin Direct contact may cause the following effects. Skin Irritation. Dermatitis. Extreme overexposure may cause. Skin burns. Frostbite.

Inhalation Extreme overexposure may cause. Shortness of breath. Dizziness. Light headedness. Central nervous system effects. Changes in heart rate. Kidney damage. Liver damage. Respiratory irritation. Decreased blood pressure. Loss of coordination. Coma. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion May cause chemical pneumonitis if aspirated into lungs.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Isopropyl Alcohol	67-63-0	2-7

Propane	74-98-6	1-6
Butane	106-97-8	1-6
Propylene Glycol Propyl Ether	1569-01-3	1-6

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 20 minutes. Seek medical attention.

Skin contact Wash area thoroughly with soap and water.

Ingestion If a large quantity of liquid is swallowed, do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation Remove to fresh air. Provide oxygen if breathing is difficult. If not breathing, give artificial respiration. Keep warm and quiet. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash point °C -104
Flash point °F -156
Method No information available

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper 12%
Lower 1.3%

Suitable extinguishing media

Alcohol foam. Carbon dioxide (CO₂). Dry chemical powder. Foam. Water fog.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire and Explosion Hazards

Material is highly volatile and readily gives off vapors. Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

Clean-up methods - small spill

Soak up with inert absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

Clean-up methods - large spill

Dike or dam large spills. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Dispose of absorbent in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE**Handling**

Keep container closed when not in use. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Keep container tightly closed. Keep away from direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Store in temperatures below 120 degrees F (50 degrees C) . Containers exposed to extreme heat may burst.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Butane	800 ppm	-	-	1000 ppm
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm	-
Propylene Glycol Propyl Ether	-	-	-	-
Isopropyl Alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. General: as necessary. Use with adequate explosion-proof ventilation to meet the limits in Section 8 .

Hygiene measures

Remove and wash contaminated clothing before re-use.

Other precautions

Use personal protective equipment.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand Protection

Protective gloves.

Eye protection

ANSI approved safety glasses or splash goggles with face shield are recommended.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	Characteristic
Odor Threshold	No information available
pH	Not Applicable
Specific Gravity	No data available
Vapor pressure	No data available
Vapor density	No data available
Evaporation Rate	< 1 (ether = 1)
Water solubility	No data available
VOC Content	7.85%
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	Not Applicable
Boiling point/range °F	Not Applicable
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	-104
Flash point °F	-156

10. STABILITY AND REACTIVITY**Stability**

Stable under normal conditions.

Conditions to avoid

Heat, flames and sparks. Avoid contact with aluminum . Do not store above 120 degrees F.

Incompatibility

Acetaldehyde. Acids. Chlorine. Ethylene oxide. Isocyanates. Strong oxidizing agents.

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide.

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal ,rat/rab bit)	LC50 (inhalation, rat)
Butane 106-97-8	-	-	658 g/m ³
Propane 74-98-6	-	-	658 mg/L
Propylene Glycol Propyl Ether 1569-01-3	-	-	-
Isopropyl Alcohol 67-63-0	4396 mg/kg	12800 mg/kg	16000 ppm

Synergistic Products None known**Potential health effects****Sensitization** None known**Chronic toxicity** None known**Mutagenic effects** None known**Teratogenic effects** None known**Reproductive toxicity** None known**Target Organ Effects** See Section 2.**Carcinogenic effects** See Table Below.

Chemical Name	ACGIH OEL - Carcinoge ns	IARC	NTP - Known Carcinoge ns	NTP - Suspected Human Carcinoge ns	OSHA RTK Carcinoge ns
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propylene Glycol Propyl Ether	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol	A4	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Isopropyl Alcohol

Microtox Data*Photobacterium phosphoreum* EC50=35390 mg/L (5 min)**Water Flea Data***Daphnia magna* EC50=13299 mg/L (48 h)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations. Full or partially full containers are considered hazardous waste.

14. TRANSPORTATION INFORMATION**DOT**

Consumer commodity, ORM-D.

TDG

Consumer commodity, ORM-D.

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl Alcohol	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Butane	Listed	Listed	Not Listed
Propane	Listed	Listed	Not Listed
Propylene Glycol Propyl Ether	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol	Not Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Butane	X	X	-	X
Propane	X	X	-	X
Propylene Glycol Propyl Ether	X	X	-	X
Isopropyl Alcohol	X	X	-	X

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations.

16. OTHER INFORMATION**NFPA**Health - 3
Flammability - 4
Reactivity - 0

Product code **19951**

Product name **C-Thru Glass
Cleaner**

16. OTHER INFORMATION

HMIS

Health - 3

Flammability - 4

Physical Hazard - 0

Prepared By

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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.