

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name:
Type LoVoC™ Low VOC Cleaner

Product ID numbers: LOVOC-XXX (Where XXX is the package code.)

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Electrical cleaning

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Flam Liq 2	H226
Skin Irrit 2	H315
Skin Sens 1	H317
Eye Irrit 2	H319
STOT SE 3	H335

2.2 Label elements

Contains: Parachlorobenzotrifluoride, d-Limonene



Pictograms:

Signal word: Warning

Hazard Statements:

H226	Flammable liquid
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Statements:

P210 Keep away from flames and hot surfaces. No smoking.

P261	Avoid breathing fumes.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
P333 + P313	If skin irritation or rash occurs get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a doctor if you feel unwell.
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 attention.
P370 + P378	In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local and national regulations.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Parachlorobenzotrifluoride	98-56-6	202-681-1	< 100%
d-Limonene	5989-27-5	227-813-5	< 10

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact:	If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.
Skin Contact:	Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.
Inhalation (Breathing):	If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.
Ingestion (Swallowing):	Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

No information available.

5. Firefighting Measures

5.1 Extinguishing media:

Carbon dioxide, water fog, dry chemical or foam.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition and by-products:

Burning may generate gases containing chlorine and/or gases containing fluorine. Smoke may be acrid and fumes irritating.

5.3 Advice for firefighters

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools to clean up the spill. For a spill in a confined space, provide mechanical ventilation to disperse or exhaust vapors. For emergency responders: use respiratory protection: half-face or full-face respirator with filter(s) for organic vapor for spills in a confined space. Work gloves that are resistant to aromatic hydrocarbons are recommended. Chemical goggles are recommended if splashes or contact with eyes is possible. For small spills: normal antistatic work clothes are usually adequate.

6.2 Environmental precautions:

Avoid release to the environment. Dike the spill to prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods materials for containment and cleaning up:

Absorb spill with sand or absorbents. Collect as much of the spilled material as possible using non-sparking tools and transfer to a container. Seal the container. Remember, adding an absorbent material does not change the toxicity or flammability hazard.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. Electrostatic charge may build up during handling. Grounding of equipment is recommended. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Parachlorobenzotrifluoride (98-56-6)

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
Manufacturer	25 ppm	--
USA OSHA, ACGIH Alberta, Quebec, Yukon, British Columbia, Saskatchewan, Ontario*	Not established	Not established

D-Limonene (5989-27-5)

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
USA ACGIH TWA	Not established	Not established
USA OSHA PEL Alberta, Quebec, Yukon, British Columbia, Saskatchewan, Ontario*	Not established	Not established

* Manitoba, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island are all based on the current ACGIH TLVs. New Brunswick is based on an older version ACGIH. Nunavut and Northwest Territories are based heavily on current ACGIH TLVs.

Component Name	Limit	Standard	Source/Note
Parachlorobenzotrifluoride	25 ppm	CEL	Manufacturer

8.2 Exposure controls

Respiratory protection:

If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.

Protective gloves:

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation. For limited use, PVC or Nitrile is acceptable. Chemically resistant gloves such as North Silver Shield® or Viton® may be used for longer exposure.

Eye protection:

Safety glasses recommended.

Other protective equipment:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties

Appearance:	Clear, colorless liquid sharp odor.
Odor threshold:	Not available
pH:	Does not apply
Freezing point:	Not available.
Boiling point:	282°F / 139°C Initial
Flash point:	104°F (40°C), Closed Cup (PMCC)
Evaporation rate:	>0.1 (n-butyl acetate = 1)
Flammability (solid, gas):	Not applicable to liquids
Upper/lower flammability or explosive limits:	Upper:10.5 Lower: 0.9
Vapor pressure:	>5 mm Hg @ 20°C
Vapor density (Air = 1):	> 1.0
Specific gravity (H₂O = 1):	1.28
Solubility in water:	Minimal
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	>500 °C
Decomposition temperature:	Not available

9.2 Other Information

Volatiles (Weight %):	100%
VOC Content:	21 g/l (contains exempt compounds) 1.6% by weight (CARB, California Air Resource Board)

10. Stability and Reactivity

10.1 Reactivity:

See remaining headings in Section 10.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Avoid heat, flame, and sparks.

10.5 Incompatible materials :

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon dioxide, carbon monoxide.

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity

Eye contact:

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

Skin contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

Inhalation (Breathing):

Concentrated petroleum solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

Ingestion:

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

Toxicity to Animals:

Parachlorobenzotrifluoride	LD ₅₀ (oral rat) >6800 mg/kg
	LD ₅₀ (dermal rabbit) >2700 mg/kg
	LC ₅₀ (inhl rat) 4479 ppm
d-Limonene:	LD ₅₀ (oral rat) >5000 mg/kg
	LD ₅₀ (dermal rabbit) 5000 mg/kg
	RD ₅₀ 1000 ppm

Aspiration hazard

Not considered an aspiration hazard.

Chronic Exposure:

Reproductive Toxicity: Not available.

Mutagenicity: Not available.

Teratogenicity: Not available.

Specific Target Organ Toxicity (STOT) No end point data.

Toxicologically Synergistic Products: Not available.

Carcinogenic Status: This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

12. Ecological Information

12.1 Aquatic Toxicity:

Parachlorobenzotrifluoride LC₅₀ (96 hr.): 13.5 mg/l Rainbow trout (fish)
 LC₅₀ (96 hr.): 12.0 mg/l Bluegill sunfish (fish)
 LC₅₀ (48 hr.): 12.4 mg/l Water flea (Invertebrate)
 EC₅₀ (72 hr.): 500 mg/l Blue – green algae (Plant)

12.2 Persistence and degradability:

Expected to be biodegradable.

12.3 Bioaccumulation potential:

No information available

12.4 Mobility in soil:

No information available.

12.5 Results of PBT and vPvB Assessment:

This product is not, nor does it contain a substance that is a PBT or vPvB.

12.6 Other adverse effects:

None known.

13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

14. Transport Information

US DOT Domestic Ground Transportation:

Type LOVOC is classified as a Combustible Liquid and is not regulated for Domestic ground transportation when shipped in non-bulk containers (< 400 liters/105.8 gallons per container). No special packaging, marking, labeling, and paperwork requirements apply.

ICAO/IATA-DGR:

UN 1993, Flammable Liquid, N.O.S., (Contains: Parachlorobenzotrifluoride, D'limonene), Class 3, III

IMDG:

UN 1993, Flammable Liquid, N.O.S., (Contains: Parachlorobenzotrifluoride, D'limonene), Class 3, III

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

USA Federal and State

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting

Acute
No

Chronic
Yes

Fire
Yes

Pressure
No

Reactive
No

Components

CERCLA/SARA Sec 302 Hazardous Substance RQ

EHS TPQ

SARA Sec. 313 Toxic Release

Components are not affected by these Superfund regulations.

NFPA Ratings:

Health: 1
 Fire: 2
 Reactivity: 0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

California Proposition 65

WARNING: This product can expose you to para-chlorobenzo trifluoride which is known to the state of California to cause cancer. For more information, go to www.p65warnings.ca.gov.

European Union

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list $\geq 0.1\%$ SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

Canada

All components are listed on the DSL inventory.
This product has been classified according to the hazard criteria of the CPR.

Australia

All components are listed on the AICS.
Hazardous according to criteria of NOHSC Australia.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration
CLP = Classification, Labeling and Packaging Regulation
STOT = Specific Target Organ Toxicity
LD₅₀ = Median Lethal Dose
DNEL = Derived No Effect Level
ACGIH = American Conference of Governmental Industrial Hygienists
TSCA = Toxic Substances Control Act (USA)
DSL = Domestic Substances List (Canada)
AICS = Australian Inventory of Chemical Substances

Hazard Statements:

H226	Flammable liquid
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Revision Date:	September 3, 2020
Revision Number:	7
Supersedes:	September 24, 2018
Other:	Not Applicable
Indication of Changes:	Section 15 updated; California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.