

### 1. Identification

**Product identifier:** POLYCLEANER  
**Product code:** POLYCLEANER  
**Supplier Name:** Polymères Technologies Inc  
6330, boulevard Laurier Ouest  
Saint-Hyacinthe, (Québec)  
J2S 9A7  
**Telephone:** 1 866-799-3058  
**Emergency tel. number:** 1 866-799-3058  
**Recommended use:** CLEANER  
**Restriction on use:** DO NOT USE ON PLASTIC SURFACES

### 2. Hazard identification

**Signal word:** NONE

**Product classification:**



Flammable liquids - Category 4.

Aspiration hazard - Category 1.

Skin sensitization - Category 1. Skin irritation - Category 2.

**Hazard statement(s):**  
H227 - Combustible liquid.  
H304 - May be fatal if swallowed and enters airways.  
H317 - May cause an allergic skin reaction.  
H315 - Causes skin irritation.

#### Precautionary statement(s)

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist, vapours, and spray. Wear protective gloves, protective clothing, eye and face protection. Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product. Contaminated work clothing should not be allowed out of the workplace.

**Response:** In case of fire: Use an appropriate extinguisher. IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation or a rash occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

**Storage:** Store in a well ventilated place. Store locked up.

**Disposal:** Dispose of contents/container in accordance with local, regional, national and/or international regulations in force.

**Other hazards:** Poison by intravenous route.

See toxicological information, section 11

### 3. Composition/ Information on ingredients

No	CAS No	Common name and synonyms	Concentration % (w/w)
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	10.00 - 30.00

The actual concentration range is withheld as a trade secret.

### 4. First-aid measures

**If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.**

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

**Skin contact:** Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation persists, consult a doctor.

**Inhalation:** Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

**Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Symptoms:** The worker may develop cutaneous hypersensitivity. Skin itching, redness of eyes and skin.

**Effects (acute or delayed):** Aspiration of this product into the lungs may produce chemical pneumonitis. May cause skin irritation and sensitization .

**Immediate medical attention and special treatment:** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media:** Jets of water can facilitate the spread of fire.

**Specific hazards arising from the hazardous product:** Combustible. If heated, vapors may form explosive mixtures with air. The vapors are heavier than air and may travel to an ignition source.

**Hazardous combustion products:** Carbon monoxide and dioxide. Sulfur oxides.

**Special protective equipment and precautions for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions:** No action shall be taken involving any personal risk or if you do not have suitable training or protection. Evacuate surrounding areas. Do not touch or walk through spilled material. Shut off all heating and ignition sources. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Protective equipment and emergency procedures:** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution. Use inert absorbent or retention tubes in the event of a large spill.

**Methods and materials for containment and cleaning up:** Stop leak if without risk. Move containers from spill area. Contain leaks and pick up with non-combustible absorbent materials such as sand, earth or vermiculite. Then, place in an appropriate waste disposal container according to local regulations. Dispose of via a licensed waste disposal contractor.

### 7. Handling and storage

**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for safe storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Incompatibility:** Strong oxidizing agents. Oxidizers.

### 8. Exposure Controls/ Personal protection

# Safety Data Sheet

## POLYCLEANER

### Alberta

No	CAS No	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	N/A	N/A	N/A	N/A	N/A	N/A

### British-Columbia

No	CAS No	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	N/A	N/A	N/A	N/A	N/A	N/A

### Ontario

No	CAS No	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	N/A	N/A	N/A	N/A	N/A	N/A

### Quebec

No	CAS No	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	N/A	N/A	N/A	N/A	N/A	N/A

### Saskatchewan

No	CAS No	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	N/A	N/A	N/A	N/A	N/A	N/A

### United States

No	CAS No	Common name and synonyms	IDLH NIOSH	Regulatory Limits			Recommended Limits	
				OSHA PEL		California / OSHA PEL	NIOSH REL	ACGIH ® 2019 TLV ®
				ppm	mg/m <sup>3</sup>	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	N.R.	N/A	N/A	N/A	N/A	N/A

IDLH: Immediately Dangerous to Life or Health Concentrations  
 NIOSH: National Institute for Occupational Safety and Health  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible Exposure Limits  
 California / OSHA: California Division of Occupational Safety and Health  
 REL: Recommended Exposure Limits  
 ACGIH ®: American Conference of Governmental Industrial Hygienists  
 TLV ®: Threshold Limit Values

**Appropriate engineering controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures:** 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eyes:** DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

**Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

**Respiratory:** If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Others:** Wear protective clothing with long sleeves and appropriate safety shoes at all times.

### 9. Physical and chemical properties

**Physical state:** Liquid

**Colour:** Colorless

**Odour:** Citrus

**Odour threshold:** Not available

**pH:** Not applicable

**Melting/Freezing point:** Not available

**Initial boiling point/boiling range:** > 178 °C (352.4 °F)

**Flash point:** 88 °C (190.4 °F) Closed cup

**Flammability, in the case of solids and gases:** Not applicable

**Lower flammable/explosive limit:** Not available

**Upper flammable/explosive limit:** Not available

**Auto-ignition temperature:** > 210 °C (410 °F)

**Evaporation rate:** Not available

**Vapour pressure:** Not available

**Vapour density:** > 1 (air = 1)

**Relative density:** 0.993 kg/L at 20 °C (water = 1)

**Solubility in water:** Partially

**Partition coefficient – n-octanol/water:** Not available

**Decomposition temperature:** Not available

**Kinematic viscosity:** 13 mm<sup>2</sup>/s (at 40 °C)

### 10. Stability and reactivity

**Reactivity:** Stable under recommended conditions of storage and handling.

**Chemical stability:** The product is chemically stable under normal conditions of use.

**Possibility of hazardous reactions:** No dangerous or polymerization reactions will not occur under normal conditions of use. Danger of explosion when heated. No dangerous or polymerization reactions will not occur under normal conditions of use. Danger of explosion when heated.

**Conditions to avoid:** Avoid electrical discharge. Keep away from sources of ignition, open flames and sparks, Keep away from incompatible products (see section 7).

**Incompatible materials:** This product can attack certain types of plastic, rubber or coatings.

**Hazardous decomposition products:** Carbon monoxide and dioxide. Sulfur oxides.

### 11. Toxicological information

	Oral	Dermal	Inhalation gases	Inhalation vapours	Inhalation dusts/mists
ATE <sub>mix</sub>	22000 mg/kg	> 5 000 mg/kg	N/A	> 20 mg/l	> 5 mg/l

No	CAS No	Common name and synonyms	LD <sub>50</sub> oral mg/kg	LD <sub>50</sub> skin mg/kg	LC <sub>50</sub> inhalation ppmV 4h - gases	LC <sub>50</sub> inhalation mg/l 4h - vapours	LC <sub>50</sub> inhalation mg/l 4h - dusts-mist
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	4400	> 5000	N/A	> 20.00	> 5.00

**Routes of exposure:** This product is absorbed through the respiratory tract, skin and gastrointestinal tract.

**Symptoms:** The worker may develop cutaneous hypersensitivity. Skin itching, redness of eyes and skin.

**Delayed and immediate effects:** Aspiration of this product into the lungs may produce chemical pneumonitis. May cause skin irritation and sensitization .

Aspiration hazard	Yes
Skin corrosion - Skin irritation	Yes
Serious eye damage - Serious eye irritation	N/A
Skin sensitization	Yes
Respiratory sensitization	N/A
Specific target organ toxicity – single exposure	N/A
Specific target organ toxicity – single exposure Category 3 Narcotic effects	N/A
Specific target organ toxicity – single exposure Category 3 Respiratory tract irritation	N/A
Specific target organ toxicity – repeated exposure	N/A

No	CAS No	Common name and synonyms	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	3	A4	The data do not allow for an adequate assessment of mutagenic effects.	The data do not allow for an adequate evaluation of the effects on reproduction.

### Cancer classification under IARC (International Agency for Research on Cancer)

Group 1: carcinogenic to humans.  
 Group 2A: probably carcinogenic to humans.  
 Group 2B: possibly carcinogenic to humans.  
 Group 3: not classifiable as to its carcinogenicity to humans.  
 Group 4: probably not carcinogenic to humans.

### Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

Group A1: confirmed human carcinogen.  
 Group A2: suspected human carcinogen.  
 Group A3: confirmed animal carcinogen with unknown relevance to humans.  
 Group A4: not classifiable as a human carcinogen.  
 Group A5: not suspected as a human carcinogen.

## 12. Ecological information

### Ecotoxicity

No	CAS No	Common name and synonyms	%	Aquatic Ecotoxicity short term	Aquatic Ecotoxicity long term	Terrestrial Ecotoxicity
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	10.00 - 30.00	Very toxic to aquatic life.	Very toxic to aquatic life with long lasting effects.	No known adverse effect to the environment.

### Persistence and degradability. Bioaccumulative potential. Other adverse effects

No	CAS No	Common name and synonyms	%	Persistent	Bio-accumulation	Aquatic ecotoxicity
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	10.00 - 30.00	No	No	Yes

**Degradability:** N/A

**Mobility in soil:** N/A



### 13. Disposal considerations

**Methods of disposal:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### 14. Transport information

	<b>TDG</b>	<b>DOT</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN Number</b>	3082	3082	3082	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Mentha-1,8-diene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Mentha-1,8-diene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Mentha-1,8-diene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Mentha-1,8-diene)
<b>Transport hazard class(es)</b>	9	9	9	9
<b>Packing group</b>	III	III	III	III

**Transport in bulk** (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)): N/A

**Marine pollutant:** Yes

**TDG:** The identification of marine pollutant is not required for transport by ground.

**IMDG:** The mark « marine pollutant » is not required when the substance is carried in quantities <= 5L or <= 5 Kg.

**Exemption for limited quantity:** 5 L

In accordance with the Canadian Transport of Dangerous Goods regulations by Road, we use the 1.17 exemption when applicable. In accordance with 49 CFR article 172.315 for transportation by a mode other than air, we use the Limited quantities exemption when applicable.

**Special precautions:** Not applicable

**Other exemptions:** No other exemption.

### 15. Regulatory information

#### Canada

No	CAS No	Common name and synonyms	%	DSL	NDSL	NPRI
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	10.00 - 30.00	X		X

### United States

No	CAS No	Common name and synonyms	%	TSCA	PROP-65	RTK
1	5989-27-5	d-Limonene. (R)-p-mentha-1,8-diene	10.00 - 30.00	X		

*The customer is responsible for determining the PPE (personal protection equipment) code for this material.*

*The classification of the product and the SDS were developed in accordance with HPR and HazCom 2012.*

## 16. Other information

**Date:** 2020-11-17

**Version:** 1

**Notice to reader:** The manufacturer hereby declares that the information disclosed herein have been based on governmental sites and/or raw material supplier's. The manufacturer has no control over the nature and content of such information. The manufacturer fully reproduces all the information it holds on the constituent of the product, at the time it is manufactured. The manufacturer does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. By this data sheet, the manufacturer hereby discloses all the potential dangers it has knowledge of and which might be related to the using or manipulation of the product in order to allow the proper care to be brought and use with regard to the product. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist and notification is hereby given to the user. Notice is hereby given that injury can derive therefrom if the foregoing is not respected. The manufacturer assumes no responsibility for personal and/or material damage, lost or injury of whichever nature caused or which may occur following the wrongful, inappropriate, negligent or abusive use or handling of the product or from not having read the herein contained information.