

## 1 Identification

### Product identifier

Trade name: ***Perm-A-Barrier VPL LT Part B***

SDS ID Number: 2254

**Relevant identified uses of the substance or mixture, and uses advised against:**  
Specialty construction product. Not intended for other uses.

### Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**  
GCP Applied Technologies  
62 Whittemore Avenue  
Cambridge, MA 02140 USA

GCP Canada, Inc.  
294 Clements Road W.  
Ajax, Ontario L1S 3C6 Canada

### Information department:

Environmental Health & Safety  
USA: +1-617-876-1400 (24 hours)  
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts  
CAN: 1-905-683-8561 (24 hours)  
Email address: msds.gcp@gcpat.com

**Transport Emergency:** Chemtrec +1-800-424-9300 (24 hours)

## 2 Hazard(s) identification

### Classification of the substance or mixture

Flammable liquid and vapor.  
May cause cancer.  
May cause damage to organs.

**Label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS)

### Hazard pictograms



GHS02 GHS08

Danger

### Hazard statements

Flammable liquid and vapor.  
May cause cancer.  
May cause damage to organs.

### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF exposed or concerned: Get medical advice/attention.  
 Store in a well-ventilated place. Keep cool.

**Hazard description:** Flammable  
**NFPA ratings (scale 0 - 4)**



Health = 1  
 Fire = 3  
 Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



Health = \*1  
 Flammability = 3  
 Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**3 Composition/information on ingredients****Chemical characterization: Mixture**

**Description:** Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

**Hazardous components:**

64-17-5	Ethanol	50-100%
67-56-1	Methanol	3.0-5.0%
108-10-1	4-Methyl-2-pentanone	1.0-3.0%
64742-89-8	Solvent naphtha (petroleum), light aliphatic	0.1-1.0%

**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

**4 First-aid measures****Description of first aid measures**

**General information:** Get medical advice/attention if you feel unwell.

**After inhalation:**

If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

**After skin contact:**

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

**After eye contact:**

Rinse cautiously with water for several minutes.

Seek immediate medical advice.

**After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

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**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.**5 Fire-fighting measures****Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13 of the SDS.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7 Handling and storage****Handling:****Precautions for safe handling**

Open and handle receptacle with care.

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Use only in explosion protected area.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Empty containers may retain hazardous residue, both liquid and vapor.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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**Conditions for safe storage, including any incompatibilities****Storage:****Information about storage in one common storage facility:** Use only in explosion protected area.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:****64-17-5 Ethanol**

PEL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

**67-56-1 Methanol**

PEL (USA)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL (USA)	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV (USA)	Short-term value: 328 mg/m <sup>3</sup> , 250 ppm Long-term value: 262 mg/m <sup>3</sup> , 200 ppm Skin; BEI

**108-10-1 4-Methyl-2-pentanone**

PEL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 300 mg/m <sup>3</sup> , 75 ppm Long-term value: 205 mg/m <sup>3</sup> , 50 ppm
TLV (USA)	Short-term value: 307 mg/m <sup>3</sup> , 75 ppm Long-term value: 82 mg/m <sup>3</sup> , 20 ppm BEI

**Ingredients with biological limit values:****67-56-1 Methanol**

BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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**108-10-1 4-Methyl-2-pentanone**

BEI (USA)	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
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**Additional information:** The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

**Breathing equipment:**

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

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If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

**Protection of hands:** Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Eye protection:**



Safety glasses with side shield protection.

**Body protection:**

Use personal protective equipment as required.

Take off contaminated clothing.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

**Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

**pH-value (~):** Not determined.

#### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	78 °C (172.4 °F)
<b>Flash point:</b>	32 °C (89.6 °F)

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** 425 °C (797 °F)

<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	In use, may form flammable/explosive vapor-air mixture.

#### Explosion limits:

<b>Lower:</b>	3.5 Vol %
<b>Upper:</b>	15.0 Vol %
<b>VOC Content (max):</b>	Not determined.

**Vapor pressure at 20 °C (68 °F):** 59 hPa (44.3 mm Hg)

<b>Density: (~)</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

#### Solubility in / Miscibility with

**Water:** Not miscible or difficult to mix.

**Partition coefficient (n-octanol/water):** Not determined.

#### Viscosity:

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Molecular weight</b>	Not applicable.

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**Other information**

No further relevant information available.

**10 Stability and reactivity****Reactivity** Stable under normal conditions.**Chemical stability****Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** Strong oxidizers.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**11 Toxicological information****Delayed and immediate effects and chronic effects from short or long term exposure**

May cause damage to organs.

**Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****64-17-5 Ethanol**

Dermal	LD50	7060 mg/kg (rat)
Inhalation	LC50, 4h	20000 mg/l (rat)

**108-10-1 4-Methyl-2-pentanone**

Dermal	LD50	2100 mg/kg (rat)
	LD50	16000 mg/kg (rabbit)
Inhalation	LC50, 4h	8.3-16.6 mg/l (rat)

**Primary irritant effect:****on the skin:** Harmful in contact with skin.**on the eye:** May be irritating to the eyes.**inhalation:** No irritating effect expected**Ingestion:** May be fatal if swallowed and enters airways.**Additional toxicological information:** NOTE: IARC listing of ethanol is specific for ethanol in alcoholic beverages.**Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:****Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

64-17-5	Ethanol	1
108-10-1	4-Methyl-2-pentanone	2B

**NTP (National Toxicology Program)****K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

### Additional ecological information:

**General notes:** Not known to be hazardous to water.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

### Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packagings:

**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14 Transport information

### UN-Number

DOT, IMDG, IATA

UN1992

### UN proper shipping name

DOT

IMDG

IATA

Flammable liquids, toxic, n.o.s. (Ethanol, Methanol)

FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)

FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL, METHANOL)

### Transport hazard class(es)

DOT



Class

3 Flammable liquids

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Label 3, 6.1

## IMDG

Class 3 Flammable liquids  
Label 3/6.1

## IATA

Class 3 Flammable liquids  
Label 3 (6.1)Packing group  
DOT, IMDG, IATA IIIEnvironmental hazards:  
Marine pollutant: NoSpecial precautions for user Warning: Flammable liquids  
Danger code (Kemler): 36  
EMS Number: F-E,S-D  
Stowage Category A

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.

## IMDG

Limited quantities (LQ) 5L  
Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 mlUN "Model Regulation": UN 1992 FLAMMABLE LIQUIDS, TOXIC, N.O.S. (ETHANOL, METHANOL),  
3 (6.1), III

## \* 15 Regulatory information

## SARA (Superfund Amendments and Reauthorization Act)

## Section 302/304 (extremely hazardous substances):

None of the ingredients is listed.

## Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

67-56-1	Methanol	3.3%
108-10-1	4-Methyl-2-pentanone	1.6%

## SARA Section 312/Tier I &amp; II Hazard Categories:

Physical Hazard - Flammable (gases, aerosols, liquids, or solids)

Health Hazard - Carcinogenicity

Health Hazard - Specific target organ toxicity (single or repeated exposure)

## North America Chemical Inventory Status

## TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

## CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

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**Right to Know Ingredient Disclosure:**

	PROP00037
7732-18-5	Water

**California Proposition 65: (Substances <0.1% unless noted in Section 3)****Chemicals known to cause cancer:**

4-Methyl-2-pentanone

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

67-56-1	Methanol
108-10-1	4-Methyl-2-pentanone

**Carcinogenicity Categories****TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**Ethanol A3**NIOSH-Cancer (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**Volatile Organic Compounds (VOC) reported per the Emission Standards. 71 g/L****16 Other information**

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

**Department issuing SDS:**

GCP Applied Technologies  
62 Whittemore Avenue  
Cambridge, MA 02140 USA  
USA: +1-617-876-1400 (24 hours)  
+1-800-354-5414

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