

Safety Data Sheet

Printing date 03/11/2015

Version Number 1.4

Reviewed on 03/11/2015

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:**

W.R. Grace & Co. -Conn.
62 Whittemore Avenue
Cambridge, MA 02140 USA

Grace 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)

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)**2 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with additional nonhazardous ingredients.**Hazardous components:**

64-17-5	Ethanol	50-100%
67-56-1	Methanol	2.0-5.0%
108-10-1	4-Methyl-2-pentanone	1.0-2.0%
64742-89-8	Solvent naphtha (petroleum), light aliphatic	0.1-1.0%

Additional information: For the wording of the listed risk phrases refer to section 16.**3 Hazard(s) identification****Classification of the substance or mixture**

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

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms



GHS02 GHS08

Danger

Hazard-determining components of labeling:

Ethanol

Methanol

4-Methyl-2-pentanone

Solvent naphtha (petroleum), light aliphatic

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Wear protective gloves / eye protection / face protection.

Keep container tightly closed.

Take precautionary measures against static discharge.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store in a well-ventilated place. Keep cool.

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

Health = 2

Fire = 3

Reactivity = 0

HMS-ratings (scale 0 - 4)

Health = *2

Flammability = 3

Reactivity = 0

4 First-aid measures**General information:**

Get medical advice/attention if you feel unwell.

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 opened eye for several minutes under running water.

Rinse cautiously with water for several minutes.

Seek immediate medical advice.

After swallowing:

Wash out mouth with water

Rinse mouth.

Do not induce vomiting; immediately call for medical help.

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Never give anything by mouth to an unconscious person.

5 Fire-fighting measures**Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.**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.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

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.

Prevent formation of aerosols.

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.

Storage:**Information about storage in one common storage facility:** Use only in explosion protected area.

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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.

Components with limit values that require monitoring at the workplace:**64-17-5 Ethanol**

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

67-56-1 Methanol

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

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

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

Personal protective equipment:**General protective and hygienic measures:**

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.**Protection of hands:**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

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Material of gloves

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.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Protective work clothing

Use personal protective equipment as required.

Take off contaminated clothing and wash before reuse.

9 Physical and chemical properties**General Information****Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odour threshold:	Not determined.

pH-value (~): Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78 °C (172 °F)
Flash point:	32 °C (90 °F)

Flammability (solid, gaseous): Not applicable.

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: In use, may form flammable/explosive vapor-air mixture.

Explosion limits:

Lower:	3.5 Vol %
Upper:	15.0 Vol %
VOC Content (max):	Not determined.

Vapor pressure at 20 °C (68 °F): 59 hPa (44 mm Hg)

Density: (~) Not determined.

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

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Solubility in / Miscibility with**Water:**

Not miscible or difficult to mix.

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

Not determined.

Kinematic:

Not determined.

Molecular weight

Not applicable.

Other information

No further relevant information available.

10 Stability and reactivity**Thermal decomposition:** No decomposition if used according to specifications.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:****64-17-5 Ethanol**

Dermal LD50 7060 mg/kg (rat)

Inhalative LC50, 4h 20000 mg/l (rat)

67-56-1 Methanol

Oral LD50 5628 mg/kg (rat)

Dermal LD50 15800 mg/kg (rabbit)

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

Dermal LD50 16000 mg/kg (rabbit)

Inhalative LC50, 4h 2100 mg/kg (rat)

Inhalative LC50, 4h 8.3-16.6 mg/l (rat)

Primary irritant effect:**on the skin:**

No irritant effect.

Harmful in contact with skin.

on the eye: No irritating effect.**Ingestion:** Harmful if swallowed.**Additional toxicological information:****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

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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.

12 Ecological information**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.**Additional ecological information:****General notes:** Danger to drinking water if even small quantities leak into the ground.**13 Disposal considerations****Waste treatment methods** Comply with Federal, State and local regulations.**Recommendation:**

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

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

DOT, ADR, IMDG, IATA UN1992

UN proper shipping name**DOT** Flammable liquids, toxic, n.o.s. (Ethanol, Methanol)**ADR** Flammable liquids, toxic, n.o.s. (Ethanol (Ethyl alcohol), Methanol)**IMDG** FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)**IATA** FLAMMABLE LIQUID, TOXIC, N.O.S. (ETHANOL, METHANOL)

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Transport hazard class(es)**DOT**

Class 3 Flammable liquids
Label 3, 6.1

ADR

Class 3 Flammable liquids
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, ADR, IMDG, IATA III

Environmental hazards:

Marine pollutant: No

Special precautions for user Warning: Flammable liquids

Danger code (Kemler): 36

EMS Number: F-E,S-D

Transport/Additional information:**ADR**

Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

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 ml

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UN "Model Regulation": UN1992, Flammable liquids, toxic, n.o.s. (Ethanol (Ethyl alcohol), 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 & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	No
Flammable	Yes
Reactive	No
Pressure	No

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

Inventory listing could not be confirmed for one or more substances.

CEPA (Canadian DSL):

Inventory listing could not be confirmed for one or more substances.

Right to Know Non Hazardous Ingredient Disclosure

	PROP00037
7732-18-5	Water

California Proposition 65

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:

64-17-5	Ethanol
67-56-1	Methanol
108-10-1	4-Methyl-2-pentanone

Carcinogenicity Categories

EPA (Environmental Protection Agency)

108-10-1	4-Methyl-2-pentanone	I
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TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)

Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

Ethanol	A3
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NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards for Architectural Coatings:

If no g/L value is provided this product is not subject to above standard.

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71 g/l applied as two component product.

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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."

Date of preparation / last revision 03/11/2015 / 1.3**The first date of preparation** 08/15/2014**Number of revision times and the latest revision date** 1.4 / 03/11/2015

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