

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Perm-A-Barrier VPS
MSDS ID Number: M-85832

MSDS Date: 05/26/2009

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Perm-A-Barrier VPS
MSDS Number: M-85832
Cancelled MSDS Number: TEMP-00317
MSDS Date: 04/21/2009
Chemical Family Name: Polyethylene sheet with synthetic Adhesive.
Product Use: Waterproofing Products
Chemical Formula: Mixture-NA
CAS # (Chemical Abstracts Service Number): Mixture-NA

Manufactured by:

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

Grace Canada, Inc.
294 Clements Road West
Ajax, Ontario L1S 3C6

In Case of Emergency Call:

In USA: (617) 876-1400 In Canada: (905) 683-8561

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent (max)
Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene	025038-32-8	10-25
Distillates, petroleum, hydrotreated heavy naphthenic	064742-52-5	5-15
Naphtha, petroleum, light steam-cracked arom., piperylene co	068478-07-9	25-50

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Caution!

Contact with residue from adhesive can cause skin and eye irritation.
Release liners are slippery.
Remove from work area immediately after membrane application.

HMIS Rating:

Health: 1
Flammability: 1
Reactivity: 0
Personal Protective Equipment: B, (See section 8)

Potential Health Effects:

Inhalation: Acute inhalation not expected to result in adverse effects.
Eye Contact: Contact with residue from adhesive can cause eye irritation.
Skin Contact: Contact with residue from adhesive can cause skin irritation.
Skin Absorption: Not expected to be harmful if absorbed through the skin.
Ingestion: Due to the physical nature of this product, ingestion is not likely.

SECTION 4 - FIRST AID MEASURES:

Skin Contact: In case of skin contact, clean fingernails and wash skin with soap and water.
If residue remains,
clean with waterless handcream or abrasive soap. Never use solvents.
If discomfort or irritation persists, consult a physician.
Remove contaminated clothing and wash before reuse.
Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open.
If discomfort or irritation persists, consult a physician.
Ingestion: Due to physical nature of this product, ingestion is not likely.
Inhalation: If symptoms develop, get fresh air. If symptoms persist, consult a physician.
If breathing has stopped, give artificial respiration then oxygen if needed.

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SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not Applicable
Flash Point Method: Not Applicable
Lower Explosion Limit: Not Available
Upper Explosion Limit: Not Available
Auto-ignition Temperature: Not Available

NFPA Rating:

Health: 1
Flammability: 1
Reactivity: 0

Extinguishing Media: In case of fire, use water spray, dry chemical, Carbon dioxide or foam.

Special Fire Fighting Procedures: Firefighters should be equipped with Self-contained Breathing Apparatus (SCBA) to prevent inhalation of hazardous decomposition products. (See Section 10.)

Unusual Fire and Explosion Hazards: None unless noted below.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Spills/Leaks: Due to physical nature of this product spills/leaks are not possible.

SECTION 7 - HANDLING AND STORAGE

Precautionary Measures: Avoid contact with eyes, skin and clothing.

Wash clothing before reuse.

Release liners are slippery. Remove from work area immediately after membrane application.

To avoid skin contact, use gloves or barrier creams. Promptly cleanse hands with waterless hand cleaner, clean fingernails and wash with soap and water after handling.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

EXPOSURE GUIDELINES (US)

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene	-	-	-	-	-	-	-
Distillates, petroleum, hydrotreated heavy naphthenic	-	-	-	-	-	-	-
Naphtha, petroleum, light steam-cracked arom., piperylene co	-	-	-	-	-	-	-

EXPOSURE GUIDELINES (CANADA)

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

Engineering Controls: Not generally required.

Personal Protective Equipment:

Respiratory Protection: Respiratory protection is not normally required.

Skin Protection: Normal work gloves are recommended.

Eye Protection: Eye protection is not normally required.

Work/Hygienic Practices: Use good personal hygiene practices. Avoid rubbing eyes while handling. Due to the physical nature of this product, ingestion is unlikely. Incidental ingestion of residue on hands can be avoided by using good personal hygiene practices.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance/Odor: White or Black polyethylene sheet with clear and white synthetic adhesive, no odor
Odor Threshold: (ppm) Not Determined
pH: Not Available
Vapor Pressure: (Mm Hg) Unknown
Vapor Density: (Air = 1) Unknown
Solubility In Water: Unknown
Specific Gravity: (Water = 1) Not Available
Evaporation Rate: (Butyl Acetate = 1) Unknown
Boiling Point: Not Applicable
Viscosity: Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf) ~65 lbs.
% Volatiles (gr/L): (70 °F) (21 °C) Not Available

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions To Avoid: Strong oxidizers.
Hazardous Polymerization: Will not polymerize.
Hazardous Decomposition Products: Carbon dioxide, Carbon Monoxide, low molecular, weight hydrocarbons, water, acrolein, formaldehyde, and other organic vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

Ingredient(No data unless listed.) **CAS Number** **LD50 and LC50**

Carcinogenicity:

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene	No	No	No	No	No	No
Distillates, petroleum, hydrotreated heavy naphthenic	No	No	No	No	No	No
Naphtha, petroleum, light steam-cracked arom., piperylene co	No	No	No	No	No	No

Mutagenicity: Not applicable.
Teratogenicity: Not applicable.
Reproductive Toxicity: Not applicable.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate: No data available for product.
Ecotoxicity: No data available for product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: Not Applicable
UN/NA Number: Not Applicable
Domestic Hazard Class: Nonhazardous
Surface Freight Classification: N.O.I.B.N
Label/Placard Required: Not Applicable

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SECTION 15 - REGULATORY INFORMATION

REGULATORY CHEMICAL LISTS:

CERCLA (Comprehensive Response Compensation and Liability Act):
(None present unless listed below)

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>CERCLA RQ</u>
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SARA Title III (Superfund Amendments and Reauthorization Act)

SARA Section 312/Tier I & II Hazard Categories:

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

302 Reportable Ingredients (Identification Threshold 1%.):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 TPQ</u>
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313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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National Volatile Organic Compound Emission Standards For Architectural Coatings:

Volatile Organic Content: (gr/L) Not Applicable

WHMIS Classification(s): Not Controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

State Regulatory Information:

California Proposition 65: This product does not contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

Massachusetts Hazardous Substance List(Identification threshold 0.001%(1ppm)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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New Jersey Hazardous Substance List(Identification threshold (0.1%)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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Pennsylvania Hazardous Substance List(Identification threshold 0.01%):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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CHEMICAL INVENTORY STATUS:

All chemicals in this product are listed or exempt from listing in the following countries:

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16 - OTHER INFORMATION

Non-Hazardous Ingredient Disclosure:

<u>Chemical Name</u>	<u>CAS Number</u>
Polyethylene Sheet	CAS# NA
Polyester Film	CAS# NA

Prepared by: EH&S Department
Approved by: EH&S Department
Approved Date: 05/26/2009

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Disclaimer:

"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."