

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

1 Identification**Product identifier**Trade name: PERM-A-BARRIER LIQUID, PART A

SDS ID Number: 60143

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:		
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	50-100%
1305-78-8	Calcium oxide	25-30%
14808-60-7	Quartz (SiO ₂)	2.0-5.0%
1314-13-2	Zinc oxide	1.0-2.0%

Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazard(s) identification**Classification of the substance or mixture**

May be fatal if swallowed and enters airways.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Harmful if inhaled.

May cause respiratory irritation.

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

(Cont. on page 2)

USGHS

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: **PERM-A-BARRIER LIQUID, PART A**

(Cont. from page 1)

Hazard pictograms

GHS05 GHS07 GHS08

Danger

Hazard-determining components of labeling:Distillates (petroleum), hydrotreated heavy naphthenic
Calcium oxide**Precautionary statements**

Wear eye protection / face protection.

Wash thoroughly after handling.

If swallowed: Immediately call a poison center/doctor.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Additional information: Avoid breathing dust.**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2

Flammability = 1

Reactivity = 0

4 First-aid measures**General information:** Get medical advice/attention if you feel unwell.**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.

In case of skin contact, clean fingernails and wash skin with soap and water. If residue remains clean with waterless hand-cleaner or abrasive soap. Never use solvents.

If discomfort or irritation persists, consult a physician.

Remove contaminated clothing and wash before reuse.

After eye contact: Rinse cautiously with water for several minutes.**After swallowing:** Rinse mouth.

USGHS

(Cont. on page 3)

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: *PERM-A-BARRIER LIQUID, PART A*

(Cont. from page 2)

5 Fire-fighting measures**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**

Risk of serious damage to eyes.

Prevent formation of aerosols.

Avoid contact with skin.

Use all product within 30-60 minutes of mixing to avoid an exothermic reaction (release of heat and fumes) Reaction times may vary depending upon temperature and mixing conditions.

Information about protection against explosions and fires: No special measures required.**Storage:****Information about storage in one common storage facility:** No special measures required.**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:****14808-60-7 Quartz (SiO₂)**

PEL (USA) see Quartz listing

REL (USA) Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

(Cont. on page 4)

USGHS

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: **PERM-A-BARRIER LIQUID, PART A**

(Cont. from page 3)

TLV (USA)	Long-term value: 0.025* mg/m ³ *as respirable fraction
1314-13-2 Zinc oxide	
PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction and fume
REL (USA)	Short-term value: 10** mg/m ³ Long-term value: 5* 5** mg/m ³ Ceiling limit value: 15* mg/m ³ *dust only **fume
TLV (USA)	Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction

Additional information: The lists that were valid during the creation were used as basis.

Work/Hygienic Practices:

Use good personal hygiene practices.

Carbon disulfide and other potentially harmful gases, Methanol vapors and fumes may evolve as a result of exothermic reactions ("hot product") when components are mixed. Carbon disulfide may be detected by odor at about 1 ppm, but the ability to smell fatigues (diminishes) rapidly therefore, odor does not serve as a good warning property.

If eye or respiratory irritation is present, or if a foul odor is detected, you may be experiencing exposure to Carbon disulfide and other organics. Leave the area immediately and seek fresh air.

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

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Respiratory protection is not normally required. If vapor or mist is created during use, wear NIOSH-approved respiratory protection (generally a P-95 dust/mist respirator is appropriate) to prevent employee exposures from exceeding the limits specified in this section.

Protection of hands:

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

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:

Use personal protective equipment as required.

Take off contaminated clothing and wash before reuse.

USGHS

(Cont. on page 5)

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: *PERM-A-BARRIER LIQUID, PART A*

(Cont. from page 4)

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:	Undetermined.
Flash point:	> 200 °C (> 392 °F)

Flammability (solid, gaseous): Not applicable.

Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.3 g/cm ³ (10.849 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with

Water:	Not miscible or difficult to mix. Not miscible or difficult to mix.
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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
Hydrocarbons
Other potentially hazardous products may also be formed.

(Cont. on page 6)

USGHS

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: *PERM-A-BARRIER LIQUID, PART A*

(Cont. from page 5)

Additional information: See section 7 for information on handling, storage and conditions to be avoided.**11 Toxicological information****Acute toxicity:****Primary irritant effect:****on the skin:** Causes skin irritation.**on the eye:** Causes serious eye damage.**inhalation:** May cause respiratory irritation.**Sensitization:** May cause sensitisation by skin contact.**Additional toxicological information:**

Chemicals contained in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. Over exposure by inhalation may be fatal due to pulmonary edema (fluid in lungs). This material may be harmful or fatal if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. Some harmful effects are also possible through skin absorption.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity:
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

14808-60-7	Quartz (SiO ₂)	1
13463-67-7	Titanium dioxide	2B

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

14808-60-7	Quartz (SiO ₂)	K
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OSHA-Ca (Occupational Safety & Health Administration)

1314-13-2	Zinc oxide	
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12 Ecological information**Aquatic toxicity:****1314-13-2 Zinc oxide**

EC50, 72h | 0.14 mg/l (algae)

Persistence and degradability No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Ecotoxicological effects:****Remark:** Harmful to fish**Additional ecological information:****General notes:** Harmful to aquatic organisms**13 Disposal considerations****Waste treatment methods** Comply with Federal, State and local regulations.

(Cont. on page 7)

USGHS

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: *PERM-A-BARRIER LIQUID, PART A*

(Cont. from page 6)

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, ADN, IMDG, IATA Not applicable.

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not applicable.

Transport hazard class(es)DOT, ADR, ADN, IMDG, IATA
Class Not applicable.**Packing group**

DOT, ADR, IMDG, IATA Not applicable.

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.**Transport/Additional information:** Not classified as a dangerous good for transport by road, rail or air.**DOT****Remarks:** Not Regulated.**UN "Model Regulation":** -**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):

1314-13-2 Zinc oxide 1.6%

SARA Section 312/Tier I & II Hazard Categories:

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

North America Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

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

(Cont. on page 8)

USGHS

Safety Data Sheet

Printing date 04/08/2015

Version Number 1.0

Reviewed on 04/08/2015

Trade name: **PERM-A-BARRIER LIQUID, PART A**

(Cont. from page 7)

CEPA (Canadian DSL):

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

Right to Know Ingredient Disclosure

13463-67-7 Titanium dioxide

Proprietary - Castor oil based ester - NJ801415063P

California Proposition 65**Chemicals known to cause cancer:**Quartz (SiO₂)

Titanium dioxide

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:

None of the ingredients is listed.

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

1314-13-2 Zinc oxide

D, I, II

1308-38-9 Chromium (III) oxide

D, CBD

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**Quartz (SiO₂)

A2

Titanium dioxide

A4

NIOSH-Cancer (National Institute for Occupational Safety and Health)14808-60-7 Quartz (SiO₂)

13463-67-7 Titanium dioxide

Volatile Organic Compounds (VOC) reported per the Emission Standards. 75 g/l (As applied)**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:**Other Information:**

There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk.

Date of preparation / last revision 04/08/2015 / -**The first date of preparation** 02/06/2015**Number of revision times and the latest revision date** 1.0 / 04/08/2015

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