

Safety Data Sheet

Printing date 03/29/2017

Version Number 1.0

Reviewed on 03/29/2017

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:
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

Harmful if inhaled.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.

Label elements:

Hazard pictograms



GHS05 GHS07 GHS08

Danger

Hazard statements

Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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If on skin (or hair): 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 swallowed: Rinse mouth. Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER/doctor if you feel unwell.

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

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:

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: 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:

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.

Do NOT induce vomiting.

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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****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.**Conditions for safe storage, including any incompatibilities****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.

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Control parameters**Components with limit values that require monitoring at the workplace:****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 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 Occupational Exposure Limit Values for possible hazards during processing:

In addition to the exposure limits referenced above, the following non-specific limits for dust apply to this product; OSHA, 15 mg/m³-TWA for Total Dust and 5 mg/m³-TWA as Respirable Dust, ACGIH, 10 mg/m³-TWA as Total Dust and 3 mg/m³-TWA as Respirable Dust.

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.

Exposure controls**Personal protective equipment:**

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

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

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.

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.

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Take off contaminated clothing.

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor 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 self-igniting.
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.
Vapor 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

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

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Hazardous decomposition products:

Carbon monoxide and carbon dioxide
Hydrocarbons
Other potentially hazardous products may also be formed.

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

11 Toxicological information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:**

on the skin: Causes severe skin burns and eye damage.

on the eye: Causes serious eye damage.

Inhalation:

Harmful if inhaled.
Causes damage to organs.

Ingestion: Harmful: may cause lung damage if swallowed.

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
1308-38-9	Chromium (III) oxide	3

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**Toxicity****Aquatic toxicity:****1314-13-2 Zinc oxide**

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

Ecotoxicological effects:

Remark: Harmful to fish

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Additional ecological information:**General notes:** Harmful to aquatic organisms**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

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, 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":

Not applicable.

15 Regulatory information**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

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

1314-13-2	Zinc oxide	1.6%
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SARA Section 312/Tier I & II Hazard Categories:

Health Hazard - Acute toxicity (any route of exposure)
 Health Hazard - Skin Corrosion or Irritation
 Health Hazard - Serious eye damage or eye irritation
 Health Hazard - Specific target organ toxicity (single or repeated exposure)
 Health Hazard - Aspiration Hazard

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.

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 (SiO ₂)
Titanium dioxide
lead
cadmium (non-pyrophoric)

Chemicals known to cause reproductive toxicity for females:

7439-92-1	lead
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Chemicals known to cause reproductive toxicity for males:

7439-92-1	lead
7440-43-9	cadmium (non-pyrophoric)

Chemicals known to cause developmental toxicity:

7439-92-1	lead
7440-43-9	cadmium (non-pyrophoric)

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 (SiO ₂)	A2
Titanium dioxide	A4

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

14808-60-7	Quartz (SiO ₂)
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:

GCP Applied Technologies
 62 Whittemore Avenue

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Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

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 03/29/2017 / -

The first date of preparation 02/06/2015

Number of revision times and the latest revision date 1.0 / 03/29/2017

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