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

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)**

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>50-100%</td>
</tr>
<tr>
<td>1305-78-8</td>
<td>Calcium oxide</td>
<td>25-30%</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>2.0-5.0%</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>Zinc oxide</td>
<td>1.0-2.0%</td>
</tr>
</tbody>
</table>

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

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**44.3.3 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.

---
Control parameters

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314-13-2 Zinc oxide</td>
<td>Long-term value: 15* 5** mg/m³</td>
<td>Short-term value: 10** mg/m³</td>
<td>Short-term value: 10* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*total dust **respirable fraction and fume</td>
<td>Long-term value: 5 mg/m³</td>
<td>Long-term value: 2* mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 15* mg/m³</td>
<td>*dust only **fume</td>
<td>*as respirable fraction</td>
</tr>
</tbody>
</table>

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 fatigue (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.
# 9 Physical and chemical properties

## Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Form:</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color:</strong></td>
<td>According to product specification</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odor threshold:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>pH-value (~):</strong></td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

## Change in condition

| **Melting point/Melting range:** | Undetermined. |
| **Boiling point/Boiling range:** | >> 200 °C (>> 392 °F) |

## Flammability (solid, gaseous)

| **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

| **Density: (~) at 20 °C (68 °F):** | 1.3 g/cm³ (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. |
| **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.
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 (SiO2) | 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 (SiO2) | K |

| OSHA-Ca (Occupational Safety & Health Administration) |  |
| 1314-13-2 Zinc oxide |  |

12 Ecological information

Toxicity

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.
Mobility in soil No further relevant information available.

Ecotoxicological effects:
Remark: Harmful to fish
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 | Not applicable. |
| 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.
Trade name: **PERM-A-BARRIER LIQUID, PART A**

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

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314-13-2</td>
<td>Zinc oxide</td>
<td>1.6%</td>
</tr>
</tbody>
</table>

**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 (SiO2)
- Titanium dioxide
- Lead
- Cadmium (non-pyrophoric)

**Chemicals known to cause reproductive toxicity for females:**
- 7439-92-1 Lead

**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 (SiO2): A2
- Titanium dioxide: A4

**NIOSH-Cancer (National Institute for Occupational Safety and Health)**
- 14808-60-7 Quartz (SiO2): A2
- 13463-67-7 Titanium dioxide: A4

**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 Whitemore Avenue

(Cont. on page 9)
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