1 Identification

- Product identifier
  - Trade name: Perma Patch™ V/O
  - Article number: 83-308247
  - Application of the substance / the mixture
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Dayton® Superior
    4226 Kansas Avenue                   Tel.: (866) 329-8724
    Kansas City, KS 66106

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.

- Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

- Classification of the substance or mixture
  - Skin Corr. 1C H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes serious eye damage.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - Carc. 1A H350 May cause cancer.
  - STOT SE 3 H335 May cause respiratory irritation.

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

![GHS pictograms]

- Signal word Danger

- Hazard-determining components of labeling:
  - Quartz (SiO2)
  - Cement, portland, chemicals

- Hazard statements
  - Causes severe skin burns and eye damage.
  - May cause an allergic skin reaction.
  - May cause cancer.
  - May cause respiratory irritation.

- Precautionary statements
  - 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. Immediately call a poison center/doctor.
  - Specific treatment (see on this label).
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)
Trade name: Perma Patch™ V/O

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 3
    - Fire = 0
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - HEALTH: Health = *3
    - FIRE: Fire = 0
    - PHYSICAL HAZARD: Reactivity = 0

- Other hazards
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:
  - 14808-60-7 Quartz (SiO2) ≥10-%<60%
  - 65997-15-1 Cement, portland, chemicals ≥25-%<13%

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

4 First-aid measures

- Description of first aid measures
- General information:
  - Immediately remove any clothing soiled by the product.
  - In the event of persistent symptoms receive medical treatment.
- After inhalation:
  - Supply fresh air and to be sure call for a doctor.
  - In case of unconsciousness place patient stably in side position for transportation.
  - Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.
- After skin contact:
  - Immediately wash with water and soap and rinse thoroughly.
  - If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- 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

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
Safety Data Sheet
acc. to OSHA HCS

Trade name: Perma Patch™ V/O

- Advice for firefighters
- Protective equipment:
  Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
  No special measures required.
- Methods and material for containment and cleaning up:
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- 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
  Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage: cool and dry
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- 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</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>Long-term value: 0.05* mg/m³</td>
<td>Long-term value: 0.05* mg/m³</td>
<td>Long-term value: 0.025* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*resp. dust; 30mg/m3/%SiO2+2</td>
<td>*respirable dust; See Pocket Guide App. A</td>
<td>*as respirable fraction</td>
</tr>
</tbody>
</table>

(Contd. on page 4)
65997-15-1 Cement, portland, chemicals

PEL Long-term value: 50 mppcf or 15* 5** mg/m³
*total dust **respirable fraction
REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction
TLV Long-term value: 1 * mg/m³
E; *as respirable fraction

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

Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Breathing equipment: Suitable respiratory protective device recommended.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:
Form: Solid
Color: According to product specification
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Not applicable.

Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: >999 °C (>1,830.2 °F)

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined.

Decomposition temperature: Not determined.
### 10 Stability and reactivity

- **Reactivity**: No decomposition if stored and applied as directed.
- **Chemical stability**: No decomposition if stored and applied as directed.
- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **Possibility of hazardous reactions**: No dangerous reactions known.
- **Conditions to avoid**: Keep away from heat and sources of ignition.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity**:
    - **Primary irritant effect**:
      - **on the skin**: May cause skin irritation.
      - **on the eye**: Irritating effect.
    - **Sensitization**: Sensitization possible through skin contact.
  - **Additional toxicological information**:
    - The product shows the following dangers according to internally approved calculation methods for preparations:
      - **Irritant**
      - **Carcinogenic**.

---

**Trade name: Perma Patch™ V/O**

- **Auto igniting**: Product is not selfigniting.
- **Danger of explosion**: Product does not present an explosion hazard.
- **Explosion limits**:
  - **Lower**: Not determined.
  - **Upper**: Not determined.
- **Vapor pressure**: Not applicable.
- **Density at 20 °C (68 °F)**: 2.85 g/cm³ (23.78325 lbs/gal)
- **Relative density**: Not determined.
- **Vapor density**: Not applicable.
- **Evaporation rate**: Not applicable.
- **Solubility in / Miscibility with Water**: Soluble.
- **Partition coefficient (n-octanol/water)**: Not determined.
- **Viscosity**:
  - **Dynamic**: Not applicable.
  - **Kinematic**: Not applicable.
- **Solvent content**:
  - **Organic solvents**: 0.0 %
  - **Water**: 0.0 %
- **Solids content**: 100.0 %
- **Other information**: No further relevant information available.
- **Volatile Organic Compounds**: 0.01066 g/L

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(Contd. on page 6)
12 Ecological information

- Toxicity
- 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.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
  Must not be disposed of as normal garbage. Do not allow product to reach sewage system.
  It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste.  State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to Federal, State, and Local regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
- DOT, ADR, ADN, IMDG, IATA: Not Regulated
- UN proper shipping name
- DOT, ADR, ADN, IMDG, IATA: Not Regulated
### 49. Transport hazard class(es)

- **DOT, ADR, ADN, IMDG, IATA**
  - **Class**: Not Regulated

- **Packing group**
  - **DOT, ADR, IMDG, IATA**: III

### 50. Environmental hazards:

- **Marine pollutant**: No

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.

### 51. Transport/Additional information:

- **ADR**
- **U.S. Domestic Ground Shipments**: Same as listed for Standard Shipments above.
- **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments**: Same as listed for Standard Shipments above.
- **Emergency Response Guide (ERG) Number**: Not determine

- **UN "Model Regulation":** Not Regulated

### 15 Regulatory information

#### Section 355 (extremely hazardous substances):

- **50-00-0 formaldehyde**

#### Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>554-13-2</td>
<td>lithium carbonate</td>
<td>&lt;0.2%</td>
</tr>
<tr>
<td>50-00-0</td>
<td>formaldehyde</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>65997-16-2</td>
<td>Cement, alumina, chemicals</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>65997-15-1</td>
<td>Cement, portland, chemicals</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>25213-24-5</td>
<td>Acetic acid ethenyl ester, polymer with ethenol</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>144-55-8</td>
<td>sodium hydrogencarbonate</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>9084-06-4</td>
<td>Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>554-13-2</td>
<td>lithium carbonate</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7757-82-6</td>
<td>sodium sulphate</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>1344-95-2</td>
<td>Silicic acid, calcium salt</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>sodium hydroxide</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>50-00-0</td>
<td>formaldehyde</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
<td>ACTIVE</td>
</tr>
</tbody>
</table>

#### TSCA (Toxic Substances Control Act):

- **14808-60-7 Quartz (SiO2)**
- **65997-16-2 Cement, alumina, chemicals**
- **65997-15-1 Cement, portland, chemicals**
- **25213-24-5 Acetic acid ethenyl ester, polymer with ethenol**
- **144-55-8 sodium hydrogencarbonate**
- **9084-06-4 Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt**
- **554-13-2 lithium carbonate**
- **7757-82-6 sodium sulphate**
- **1344-95-2 Silicic acid, calcium salt**
- **1310-73-2 sodium hydroxide**
- **50-00-0 formaldehyde**
- **7732-18-5 water, distilled, conductivity or of similar purity**

#### Hazardous Air Pollutants

- **50-00-0 formaldehyde**

(Contd. on page 8)
### Proposition 65

<table>
<thead>
<tr>
<th>Chemicals known to the State of California (Prop. 65) to cause cancer:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quartz (SiO2)</td>
</tr>
<tr>
<td>50-00-0 formaldehyde</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for females:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for males:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause developmental toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>554-13-2 lithium carbonate</td>
</tr>
</tbody>
</table>

### Cancerogenity categories

<table>
<thead>
<tr>
<th>EPA (Environmental Protection Agency)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-00-0 formaldehyde B1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLV (Threshold Limit Value established by ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quartz (SiO2) A2</td>
</tr>
<tr>
<td>1344-95-2 Silicic acid, calcium salt A4</td>
</tr>
<tr>
<td>50-00-0 formaldehyde A2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAK (German Maximum Workplace Concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quartz (SiO2) 1</td>
</tr>
<tr>
<td>50-00-0 formaldehyde 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NIOSH-Ca (National Institute for Occupational Safety and Health)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quartz (SiO2)</td>
</tr>
<tr>
<td>50-00-0 formaldehyde</td>
</tr>
</tbody>
</table>

### GHS label elements

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

### Hazard pictograms

- ![](https://example.com/pictogram1.png)
- ![](https://example.com/pictogram2.png)
- ![](https://example.com/pictogram3.png)

| GHS05 | GHS07 | GHS08 |

### Signal word

**Danger**

### Hazard-determining components of labeling

- Quartz (SiO2)
- Cement, portland, chemicals

### Hazard statements

- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- May cause cancer.
- May cause respiratory irritation.

### Precautionary statements

- 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. Immediately call a poison center/doctor.
- Specific treatment (see on this label).
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 9)
Trade name: Perma Patch™ V/O

- National regulations:

- Information about limitation of use:
  Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

The provided information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Environmental, Health & Safety Department
- Contact: Environmental, Health & Safety Manager
- Date of preparation / last revision 11/04/2019 / 113
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
  Skin Corr. 1C: Skin corrosion/irritation – Category 1C
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  Skin Sens. 1: Skin sensitisation – Category 1
  Carc. 1A: Carcinogenicity – Category 1A
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3