1 Identification

- **Product identifier**
  - **Trade name:** Pave Patch 3000
  - **Article number:** 83-143333
  - **Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
  - **Application of the substance / the mixture**

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - Dayton® Superior
    - 4226 Kansas Avenue
    - Kansas City, KS 66106
    - **Tel.:** (866) 329-8724

*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**
  - Carc. 1A H350 May cause cancer.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - May cause eye and skin irritation. Prolonged contact may cause sensitization.

- **Information concerning particular hazards for human and environment:**
  - The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.

- **Classification system:**
  - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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

  - ![GHS08](image_url)

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - Quartz (SiO2)

- **Hazard statements**
  - May cause cancer.

- **Precautionary statements**
  - If medical advice is needed, have product container or label at hand.
  - Keep out of reach of children.
  - Read label before use.
  - Use personal protective equipment as required.
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - IF exposed or concerned: Get medical advice/attention.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)
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) 50-75%
  - 65997-15-1 Cement, portland, chemicals 10-25%
  - 26499-65-0 Calcium sulfate ≤ 5%
  - 13397-24-5 Gypsum (Calcium sulfate) ≤ 2.5%

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

4 First-aid measures

- Description of first aid measures
  - 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.
  - After skin contact: If skin irritation continues, consult a doctor.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a 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: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: 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

- 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:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not 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>Substance</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quartz (SiO2)</td>
<td>see Quartz listing</td>
<td>Long-term value: 0.05* mg/m³</td>
<td>Long-term value: 0.025* mg/m³</td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 0.05* mg/m³</td>
<td>*respirable dust; See Pocket Guide App. A</td>
<td></td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 0.025* mg/m³</td>
<td>*as respirable fraction</td>
<td></td>
</tr>
</tbody>
</table>

65997-15-1 Cement, portland, chemicals

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td>Long-term value: 50 mpcf or 15* 5** mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 10* 5** mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 1* mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
26499-65-0 Calcium sulfate

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction
REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

7778-18-9 calcium sulphate, natural

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction
REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction
TLV Long-term value: 10* mg/m³
*as inhalable 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.
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
· Odour threshold: Not determined.
· pH-value: Not applicable.

· Change in condition
  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: > 999 °C (> 1830 °F)
39.0

- Flash point: Not applicable.
- Flammability (solid, gaseous): Not determined.
- Ignition temperature:
  - 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.
- Vapor pressure: Not applicable.
- Density at 20 °C (68 °F): 2.85248 g/cm³ (23.804 lbs/gal)
- Relative density: Not determined.
- Vapour 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 %
- Solids content: 100.0 %
- Other information: No further relevant information available.
- Volatile Organic Compounds: Not determined

10 Stability and reactivity

- Reactivity
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- 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.
39.0

Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

Carcinogenic categories

- IARC (International Agency for Research on Cancer)
  - 14808-60-7 Quartz (SiO2) 1
  - 13463-67-7 titanium dioxide 2B
  - 1309-37-1 diiron trioxide 3
  - 50-00-0 formaldehyde 1

- NTP (National Toxicology Program)
  - 14808-60-7 Quartz (SiO2) K
  - 50-00-0 formaldehyde R

- OSHA-Ca (Occupational Safety & Health Administration)
  - 50-00-0 formaldehyde

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability No further relevant information available.
  - 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, IMDG, IATA Not Regulated

(Contd. on page 7) USA
### Transport/Additional information:

<table>
<thead>
<tr>
<th>ADR</th>
<th>Not Regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, ADR, IMDG, IATA</td>
<td>N/A</td>
</tr>
<tr>
<td>Class</td>
<td>III</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Environmental hazards:

| Marine pollutant:                        | No            |

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### Transport/Additional information:

<table>
<thead>
<tr>
<th>U.S. Domestic Ground Shipments:</th>
<th>Same as listed for Standard Shipments above.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:</td>
<td>Same as listed for Standard Shipments above.</td>
</tr>
<tr>
<td>Emergency Response Guide (ERG) Number:</td>
<td>Not determine</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td>UN-, -, N/A, III</td>
</tr>
</tbody>
</table>

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### 15 Regulatory information:

| Safety, health and environmental regulations/legislation specific for the substance or mixture
| Sara |

#### 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>Chemical</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1344-28-1 aluminium oxide</td>
<td>≤1%</td>
</tr>
<tr>
<td>50-00-0 formaldehyde</td>
<td>≤0.01%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 quartz (SiO2)</td>
<td></td>
</tr>
<tr>
<td>65997-16-2 cement, alumina, chemicals</td>
<td></td>
</tr>
<tr>
<td>65997-15-1 cement, portland, chemicals</td>
<td></td>
</tr>
<tr>
<td>7778-18-9 calcium sulphate, natural</td>
<td></td>
</tr>
<tr>
<td>1344-28-1 aluminium oxide</td>
<td></td>
</tr>
<tr>
<td>1317-65-3 limestone</td>
<td></td>
</tr>
<tr>
<td>10043-35-3 boric acid</td>
<td></td>
</tr>
<tr>
<td>13463-67-7 titanium dioxide</td>
<td></td>
</tr>
<tr>
<td>1309-37-1 diuron trioxide</td>
<td></td>
</tr>
<tr>
<td>1310-73-2 sodium hydroxide</td>
<td></td>
</tr>
<tr>
<td>50-00-0 formaldehyde</td>
<td></td>
</tr>
</tbody>
</table>
### Proposition 65

- **Chemicals known to the State of California (Prop. 65) to cause cancer:**
  - 14808-60-7 Quartz (SiO2)
  - 13463-67-7 titanium dioxide
  - 50-00-0 formaldehyde

- **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.

### Cancerogenity categories

- **EPA (Environmental Protection Agency)**
  - 10043-35-3 boric acid
  - 50-00-0 formaldehyde
  - I (oral)

- **TLV (Threshold Limit Value established by ACGIH)**
  - 14808-60-7 Quartz (SiO2)
  - 1344-28-1 aluminium oxide
  - 10043-35-3 boric acid
  - 13463-67-7 titanium dioxide
  - 1309-37-1 diiron trioxide
  - 50-00-0 formaldehyde
  - A2
  - A4
  - A4
  - A4

- **MAK (German Maximum Workplace Concentration)**
  - 14808-60-7 Quartz (SiO2)
  - 1344-28-1 aluminium oxide
  - 13463-67-7 titanium dioxide
  - 50-00-0 formaldehyde
  - 1
  - 2
  - 3A
  - 4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - 14808-60-7 Quartz (SiO2)
  - 13463-67-7 titanium dioxide
  - 50-00-0 formaldehyde

### GHS label elements

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

### Hazard pictograms

- GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  Quartz (SiO2)

- **Hazard statements**
  May cause cancer.

(Contd. on page 9)
39.0 Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Use personal protective equipment as required.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

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.

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Department issuing MSDS: Environmental, Health & Safety Department

Contact: Environmental, Health & Safety Manager

Date of preparation / last revision 01/17/2015 / 88

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)
Carc. 1A: Carcinogenicity, Hazard Category 1A