1 Identification

- Product identifier
- Trade name: 1107 Advantage™ Grout
- Article number: 83-67435
- 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

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

- Signal word Danger

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

- 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.

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· Classification system:
  · NFPA ratings (scale 0 - 4)
    
    Health = 1  
    Fire = 0  
    Reactivity = 0

· HMIS-ratings (scale 0 - 4)
  
  HEALTH  
  FIRE  
  PHYSICAL HAZARD

Health = 1  
Fire = 0  
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  
  ≥10-%<40%

  7778-18-9 calcium sulphate, natural  
  ≥0.1-%<2.75%

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

4 First-aid measures

· Description of first aid measures
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: If skin irritation continues, consult a doctor.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: Seek medical treatment.
  · 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.
  · 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.
  
  No special measures required.

- **Methods and material for containment and cleaning up:** Pick up mechanically.

- **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.

- **Protective Action Criteria for Chemicals**

  - **PAC-1:**
    
    | Substance | PAC Value |
    |-----------|-----------|
    | Quartz (SiO2) 14808-60-7 | 0.075 mg/m³ |
    | aluminium oxide 1344-28-1 | 15 mg/m³ |
    | diiron trioxide 1309-37-1 | 15 mg/m³ |
    | titanium dioxide 13463-67-7 | 30 mg/m³ |
    | aluminium hydroxide 21645-51-2 | 8.7 mg/m³ |
    | sodium hydroxide 1310-73-2 | 0.5 mg/m³ |
    | sodium carbonate 497-19-8 | 7.6 mg/m³ |

  - **PAC-2:**
    
    | Substance | PAC Value |
    |-----------|-----------|
    | Quartz (SiO2) 14808-60-7 | 33 mg/m³ |
    | aluminium oxide 1344-28-1 | 170 mg/m³ |
    | diiron trioxide 1309-37-1 | 360 mg/m³ |
    | titanium dioxide 13463-67-7 | 330 mg/m³ |
    | aluminium hydroxide 21645-51-2 | 73 mg/m³ |
    | sodium hydroxide 1310-73-2 | 5 mg/m³ |
    | sodium carbonate 497-19-8 | 83 mg/m³ |

  - **PAC-3:**
    
    | Substance | PAC Value |
    |-----------|-----------|
    | Quartz (SiO2) 14808-60-7 | 200 mg/m³ |
    | aluminium oxide 1344-28-1 | 990 mg/m³ |
    | diiron trioxide 1309-37-1 | 2,200 mg/m³ |
    | titanium dioxide 13463-67-7 | 2,000 mg/m³ |
    | aluminium hydroxide 21645-51-2 | 440 mg/m³ |
    | sodium hydroxide 1310-73-2 | 50 mg/m³ |
    | sodium carbonate 497-19-8 | 500 mg/m³ |

7 Handling and storage

- **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.
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>Long-term value: 0.05* mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REL</td>
<td>Long-term value: 0.05* mg/m³</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Long-term value: 0.025* mg/m³</td>
</tr>
</tbody>
</table>

*respirable dust: See Pocket Guide App. A

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

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures: Wash hands before breaks and at the end of work.

- Breathing equipment: Not required.

- 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.

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Trade name: 1107 Advantage™ Grout

- 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Solid</td>
</tr>
<tr>
<td>Color:</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>&gt;999 °C (&gt;1,830.2 °F)</td>
</tr>
<tr>
<td>Flash point:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F):</td>
<td>2.8386 g/cm³ (23.68812 lbs/gal)</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Water:</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solvent content:</td>
<td></td>
</tr>
<tr>
<td>Solids content:</td>
<td>100.0 %</td>
</tr>
<tr>
<td>Other information:</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>Volatile Organic Compounds:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**: No decomposition if used according to specifications.
- **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**: No irritating effect known.
      - **Sensitization**: No sensitizing effects known.
    - **Additional toxicological information**:
      - **Carcinogenic categories**
        - **IARC (International Agency for Research on Cancer)**
          - 14808-60-7 Quartz (SiO2) 1
          - 1309-37-1 diiron trioxide 3
          - 13463-67-7 titanium dioxide 2B
        - **NTP (National Toxicology Program)**
          - 14808-60-7 Quartz (SiO2) K
        - **OSHA-Ca (Occupational Safety & Health Administration)**
          - None of the ingredients is listed.

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 I (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.

14 Transport information

· UN-Number
  · DOT, ADR, ADN, IMDG, IATA: Not Regulated

· UN proper shipping name
  · DOT, ADR, ADN, IMDG, IATA: Not Regulated

· Transport hazard class(es)
  · DOT, ADR, ADN, IMDG, IATA: Not Regulated

· Packing group
  · DOT, ADR, IMDG, IATA: Not Regulated

· Environmental hazards:
  · Marine pollutant: No

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

· 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

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

· Section 355 (extremely hazardous substances):
  · None of the ingredient is listed.

· 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.
  
  1344-28-1 aluminium oxide ≥0.1-%<0.5%

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Trade name: 1107 Advantage™ Grout

- **TSCA (Toxic Substances Control Act):**
  All ingredients are listed.

- **Proposition 65**
  - **Chemicals known to the State of California (Prop. 65) to cause cancer:**
    - 14808-60-7 Quartz (SiO2)
    - 13463-67-7 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.

- **Cancerogenity categories**
  - **EPA (Environmental Protection Agency)**
    - None of the ingredients is listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    - 14808-60-7 Quartz (SiO2) A2
    - 1344-28-1 aluminium oxide A4
    - 1309-37-1 diiron trioxide A4
    - 13463-67-7 titanium dioxide A4
    - 1344-95-2 Silicic acid, calcium salt A4
  - **MAK (German Maximum Workplace Concentration)**
    - 14808-60-7 Quartz (SiO2) 1
    - 1344-28-1 aluminium oxide 2
    - 13463-67-7 titanium dioxide 3A
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - 14808-60-7 Quartz (SiO2)
    - 13463-67-7 titanium dioxide

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS05  GHS07  GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
  Cement, portland, chemicals
  Quartz (SiO2)
- **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.

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.
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 05/22/2019 / 268
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