1 Identification

- Product identifier
- Trade name: HD 50™
- Article number: 83-67460

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
  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
  
  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 2)
Trade name: HD 50™

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

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

### 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%
  - 26499-65-0 Calcium sulfate ≥0.1-<6%
  - 65997-15-1 Cement, portland, chemicals ≥3-<4.25%
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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.
  - **After swallowing:**
    - Drink copious amounts of water and provide fresh air. Immediately call a doctor.
    - 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.
  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:
  Use neutralizing agent.
  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.
- Protective Action Criteria for Chemicals

| PAC-1: | 14808-60-7 Quartz (SiO2) | 0.075 mg/m³ |
|        | 554-13-2 lithium carbonate | 3.1 mg/m³ |
|        | 7631-86-9 silicon dioxide, chemically prepared | 18 mg/m³ |
| PAC-2: | 14808-60-7 Quartz (SiO2) | 33 mg/m³ |
|        | 554-13-2 lithium carbonate | 34 mg/m³ |
|        | 7631-86-9 silicon dioxide, chemically prepared | 740 mg/m³ |
| PAC-3: | 14808-60-7 Quartz (SiO2) | 200 mg/m³ |
|        | 554-13-2 lithium carbonate | 210 mg/m³ |
|        | 7631-86-9 silicon dioxide, chemically prepared | 4,500 mg/m³ |

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: Keep respiratory protective device 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 Long-term value:</th>
<th>REL Long-term value:</th>
<th>TLV Long-term value:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quartz (SiO2)</td>
<td>0.05* mg/m³ resp. dust; 30mg/m3/%SiO2+2</td>
<td>0.05* mg/m³ respirable dust; See Pocket Guide App. A</td>
<td>0.025* mg/m³ as respirable fraction</td>
</tr>
<tr>
<td>26499-65-0 Calcium sulfate</td>
<td>15* 5** mg/m³ total dust **respirable fraction</td>
<td>10* 5** mg/m³ total dust **respirable fraction</td>
<td></td>
</tr>
<tr>
<td>65997-15-1 Cement, portland, chemicals</td>
<td>50 mppcf or 15* 5** mg/m³ total dust **respirable fraction</td>
<td>10* 5** mg/m³ total dust **respirable fraction</td>
<td>1* mg/m³ **E; *as respirable fraction</td>
</tr>
</tbody>
</table>

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

- Exposures 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.
Safety Data Sheet
acc. to OSHA HCS

Printing date 08/20/2019  Reviewed on 08/20/2019

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- 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.
- 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): 2.7825 g/cm³ (23.21996 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:
  - Solids content: 100.0 %
- Other information: No further relevant information available.
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: Strong caustic effect. 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:
  Corrosive
  Irritant
  Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
  Carcinogenic.
· Carcinogenic categories:
  · IARC (International Agency for Research on Cancer)
    14808-60-7 Quartz (SiO2) 1
    7631-86-9 silicon dioxide, chemically prepared 3
  · 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.
**Trade name: HD 50™**

- **Additional ecological information:**
  - **General notes:**
    - Water hazard class 1 (Self-assessment): slightly hazardous for water
    - Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  - **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

- **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

(Contd. on page 8)
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- 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.
  554-13-2 lithium carbonate ≤0.1%
- TSCA (Toxic Substances Control Act):
  14808-60-7 Quartz (SiO2)
  65997-16-2 Cement, alumina, chemicals
  65996-69-2 Slags, ferrous metal, blast furnace
  65997-15-1 Cement, portland, chemicals
  7778-18-9 calcium sulphate, natural
  554-13-2 lithium carbonate
  7631-86-9 silicon dioxide, chemically prepared
- TSCA new (21st Century Act) (Substances not listed)
  26499-65-0 Calcium sulfate
- Proposition 65
  - Chemicals known to the State of California (Prop. 65) to cause cancer:
    14808-60-7 Quartz (SiO2)
  - 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:
    554-13-2 lithium carbonate
- 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
  - MAK (German Maximum Workplace Concentration)
    14808-60-7 Quartz (SiO2) 1
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    14808-60-7 Quartz (SiO2)
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
Trade name: HD 50™

- Hazard pictograms

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.

- 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 08/20/2019 / 30
- 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

(Contd. on page 10)
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