1 Identification

- Product identifier
  - Trade name: PENTRA-HARD® DENSIFIER
  - Article number: 143610
  - 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
  - Acute Tox. 4 H312 Harmful in contact with skin.
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2A H319 Causes serious eye irritation.

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

- Signal word Warning

- Hazard statements
  - Harmful in contact with skin.
  - Causes skin irritation.
  - Causes serious eye irritation.

- Precautionary statements
  - Do not get in eyes, on skin, or on clothing.
  - Wear protective gloves / eye protection / face protection.
  - [In case of inadequate ventilation] wear respiratory protection.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Do not expose to temperatures exceeding 50°C/122°F.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)

  Health = 1
  Fire = 0
  Reactivity = 0

(Contd. on page 2)
Trade name: PENTRA-HARD® DENSIFIER

· HMIS-ratings (scale 0 - 4)
  
  HEALTH  
  1  Health = 1
  0  Fire = 0

  PHYSICAL HAZARD  
  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: Void
· 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 recieve medical treatment.
· After inhalation:
  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: 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.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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:
None of the ingredients is listed.

PAC-2:
None of the ingredients is listed.

PAC-3:
None of the ingredients is listed.

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.
Store in cool, dry conditions in well sealed receptacles.

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:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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.
### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Liquid
      - **Color:** According to product specification
      - **Odor:** Characteristic
      - **Odor threshold:** Not determined.
  - **pH-value at 20 °C (68 °F):** 11
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** 100 °C (212 °F)
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Not applicable.
  - **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 at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)
  - **Density at 20 °C (68 °F):** 1 g/cm³ (8.345 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.
  - **Solvent content:**
    - **Water:** 88.0 %
  - **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 irritant with the danger of severe eye injury. Irritating effect.
    - **Sensitization:** No sensitizing effects known.
  - **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):** None of the ingredients is listed.
  - **NTP (National Toxicology Program):** None of the ingredients is listed.
  - **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 1 (Self-assessment): slightly hazardous for water.
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
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- Other adverse effects No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  
  **Recommendation:**
  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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN-Number</strong></td>
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</tr>
<tr>
<td><strong>DOT, ADR, ADN, IMDG, IATA</strong></td>
<td>Not Regulated</td>
</tr>
<tr>
<td><strong>UN proper shipping name</strong></td>
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<td><strong>Transport hazard class(es)</strong></td>
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</tr>
<tr>
<td><strong>Class</strong></td>
<td>Not Regulated</td>
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<tr>
<td><strong>Packing group</strong></td>
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<tr>
<td><strong>DOT, ADR, IMDG, IATA</strong></td>
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<tr>
<td><strong>Environmental hazards:</strong></td>
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<tr>
<td><strong>Marine pollutant:</strong></td>
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<tr>
<td><strong>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</strong></td>
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<tr>
<td><strong>Transport/Additional information:</strong></td>
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<tr>
<td><strong>ADR</strong></td>
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<tr>
<td><strong>U.S. Domestic Ground Shipments:</strong></td>
<td>Same as listed for Standard Shipments above.</td>
</tr>
<tr>
<td><strong>U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:</strong></td>
<td>Same as listed for Standard Shipments above.</td>
</tr>
<tr>
<td><strong>Emergency Response Guide (ERG) Number:</strong></td>
<td>Not determine</td>
</tr>
<tr>
<td><strong>UN &quot;Model Regulation&quot;:</strong></td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

### 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.

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### Trade name: PENTRA-HARD® DENSIFIER

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**
  - 12627-14-4 Lithium Silicate
  - 7732-18-5 water, distilled, conductivity or of similar purity

- **Proposition 65**
  - **Chemicals known to the State of California (Prop. 65) to cause cancer:**
    - None of the ingredients is listed.
  - **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)**
    - None of the ingredients is listed.
  - **MAK (German Maximum Workplace Concentration)**
    - None of the ingredients is listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - None of the ingredients is listed.

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

- **Hazard pictograms**

  ![GHS07]

  - **Signal word** Warning
  - **Hazard statements**
    - Harmful in contact with skin.
    - Causes skin irritation.
    - Causes serious eye irritation.

- **Precautionary statements**
  - Do not get in eyes, on skin, or on clothing.
  - Wear protective gloves / eye protection / face protection.
  - [In case of inadequate ventilation] wear respiratory protection.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Do not expose to temperatures exceeding 50°C/122°F.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
16 Other information

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** 03/05/2019 / 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
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A