Section 1. Identification

Product identifier Hydro-Biodigesters
Other means of identification HBD-1, HBD-110
Product Description HBD Hydro-Biodigesters Waste Formula, Dry Powder
Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier
Company name Hydro Engineering, Inc.
Address 865 W 2600 S
Salt Lake City, UT 84119
Telephone 800-247-8424
Website http://www.hydroblaster.com
Emergency phone number Chemtrec Within US & Canada: 800-424-9300

Section 2. Hazard(s) identification

Eyes May cause irritation
Skin May cause slight irritation
Inhalation Inhalation of dust in high concentrations may cause irritation of respiratory system
Ingestion Non-toxic by ingestion
Physical and Chemical Hazards Possible explosive dust hazard typical of fine-powder organic substances.

Section 3. Composition/information on ingredients

Description: Powdered Microbial-Cultures and Enzymes

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>% Composition</th>
<th>OSHA – PEL</th>
<th>ACGIH – TLV-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whey (as nuisance dust, Total)</td>
<td>92129-90-3</td>
<td>&gt;90%</td>
<td>15mg/m3</td>
<td>10mg/m3</td>
</tr>
<tr>
<td>Hydrated Silicon Dioxide (as nuisance dust, Total)</td>
<td>7631-86-9</td>
<td>&lt;1%</td>
<td>15mg/m3</td>
<td>10mg/m3</td>
</tr>
<tr>
<td>Freeze-dried microbial cultures and enzymes</td>
<td>Trade Secret</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

Exact percentages of ingredients, microbial species, and enzyme types are withheld in order to protect trade secrets.

Section 4. First-aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes. If irritation persists, consult a physician.
Skin contact Wash off immediately with plenty of water. If irritation persists, consult a physician.
Inhalation If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if respiratory irritations or distress continues.
Ingestion Clean mouth with water and afterwards drink plenty of water. If symptoms persist, call a physician.
Notes to Physician Treat symptomatically.
Section 5. Fire-fighting measures

Flammable properties
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Suitable extinguishing methods
Use water-spray, fog, carbon-dioxide, foam, or dry chemical

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus with pressure demand and full protective gear.

Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures
Avoid contact with skin and eyes

Methods for containment
Prevent dust cloud

Methods for cleanup
Sweep or scoop into suitable container for disposal. Avoid dust formation. After product recovery, flush area with water.

Section 7. Handling and storage

Precautions for safe handling
Avoid inhalation, ingestion, and contact with skin and eyes.

Conditions for safe storage, including any incompatibilities.
Store in original container. Keep container tightly closed. Check the Product Description for storage temperature.

Technical Measures/Precautions
This product may present a dust explosive hazard, minimize dust generation and accumulation.

Section 8. Exposure controls/personal protection

Exposure Guidelines
OSHA PEL 15mg/m3 ACGIH TLV 10mg/m3

Occupational Exposure Controls

Engineering Measures
Ensure adequate ventilation. Local exhaust ventilation of dust at the point of generation.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practices.

Personal Protective Equipment (PPE)

Eye/Face Protection
Tightly fitting safety goggles

Skin and Body Protection
Wear protective gloves/clothing

Respiratory Protection
No protective equipment needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation, appropriate respirator, or evacuation may be required.

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off-white to tan</td>
</tr>
<tr>
<td>Physical State</td>
<td>Powdered Solid</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Unknown</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Unknown</td>
</tr>
<tr>
<td>Flammability</td>
<td>Must be preheated</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Very Soluble</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Unknown</td>
</tr>
<tr>
<td>Odor</td>
<td>Dairy/fermentation product</td>
</tr>
<tr>
<td>pH</td>
<td>5.5-6.5 (10% solution)</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Unknown</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Unknown</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Unknown</td>
</tr>
<tr>
<td>Density</td>
<td>0.80g/cm³, tapped</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Unknown</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

Reactivity
Avoid contact with strong oxidizers

Chemical Stability
Stable

Hazardous Polymerization
Will not occur

Hazardous Decomposition
Combustion results in carbon monoxide and carbon dioxide

Conditions to Avoid
Avoid dust formation, heat, flames, and sparks

Section 11. Toxicological information

Acute Toxicity

Oral
None Known

Dermal
None Known

Inhalation
No data available

Irritation

Eye
Dust contact with the eyes can lead to mechanical irritation

Skin
Prolonged or repeated contact may dry skin or cause irritation.

Respiratory
Inhalation of dust in high concentrations may cause irritation of the respiratory system.

Ingestion
May cause temporary gastrointestinal discomfort

Sensitization
May cause sensitization of susceptible persons.

Effects of Short and Long-Term Exposure
No data available

Symptoms of Exposure
Possible irritation to eyes, skin, or respiratory system

NTP Report on Carcinogens / IARC Monographs
Not Listed

Potential OSHA Carcinogen
Not Listed

Section 12. Ecological information

Persistence and Degradability
No data available; readily biodegradable components and viable microorganisms

Ecotoxicological Information
No data available

Adverse effects
None Expected

Section 13. Disposal considerations

This material is not considered hazardous wastes according to Federal regulations (40-CFR-261). Consult local, regional, or state regulations for additional requirements.

Section 14. Transport information

Not classified as dangerous with respect to transport regulations

Section 15. Regulatory information

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Hazard Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>Flammability</td>
</tr>
<tr>
<td>2</td>
<td>Temporary or minor injury may occur</td>
</tr>
</tbody>
</table>
U.S. Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 – Threshold Values</th>
<th>CERCLA/SARA – Section 302 Extremely Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeze-dried Microbial Mixture</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California – This product does not contain any Proposition 65 Chemicals

Section 16. Other information, including date of preparation or last revision

Issue date 27-September-2002

Revision date 09-December-20

Disclaimer

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