SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture GHS-US classification
- Combustible Dust

2.2. Label Elements GHS-US Labeling
- Hazard Pictograms (GHS-US): Type H

2.3. Other Hazards Exposure may aggregate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US) No data available

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

3.1. Information on Basic Physical and Chemical Properties Physical State: Solid
- Appearance: White to off-white powder
- Odor: None
- Odor Threshold: No data available
- pH: 4.0 - 6.8
- Evaporation Rate: No data available
- Flash Point: No data available
- Auto-Ignition Temperature: No data available
- Decomposition Temperature: No data available
- Flammability (Solid, gas): Not data available
- Vapor Pressure: No data available
- Relative Vapor Density: No data available
- Density: 1000 kg/m³
- Solubility: Water
- Octanol/Water Partition Coefficient: 1.0
- Molecular weight: 210.11
- Melting point (approximate): 77 °C (170 °F)
- Evaporation rate: ≤ 5 %

SECTION 4: FIRST-AID MEASURES

4.1. Information on Extinguishing Media Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam, water spray, fog.
- Unstable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

4.2. Special Precautions Arising From the Substance or Mixture Fire: Combustible Dust.
- Explosion Hazard: Fire dust clouds may form explosive mixtures with air. Dust explosion hazard may exist. Reactivity: Reactions reactions will not occur under normal conditions.

4.3. Advice for Firefighters Unstable Extinguishing Media: Exercise caution when fighting any chemical fire.
- Firefighting Instructions: Use water spray or fog for cooling exposed containers.
- Protection During Fighting: Do not enter fire area without proper protective equipment, including respiratory protection.
- Other Information: Risk of dust explosion.

4.4. For Non-Emergency Personnel Protective Equipment: Use appropriate personal protective equipment (PPE)

4.5. For Emergency Responders Protective Equipment: Equip cleanup crew with proper protection.
- Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Information on Incompatible Materials Incompatible Material or Products: Hazards arising from the substance or mixture.
- Incompatible Material or Products: Hazards arising from the substance or mixture.

5.2. Special Hazards Arising From the Substance or Mixture None known. Thermal decomposition generates: Oxides of carbon, sodium and water. Use water spray to cool unsignificantly hot containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Protective Equipment: Personal protective equipment.

6.2. Environmental Precautions: Prevent entry into sewers and public waters.
- Environmental Precautions: Prevent entry into sewers and public waters.

6.3. Methods and Material for Containment and Cleanup For Containment: Contain spills with appropriate barriers and prevent migration into entry ways or sewers.
- Methods for Containment: Contain spills with appropriate barriers and prevent migration into entry ways or sewers.

6.4. Reference to Other Sections See Section 9: Exposure Control and Personal Protective. See Section 13: Disposal Considerations.

SECTION 7: STABILITY AND REACTIVITY

7.1. Precautions for Safe Handling Additional Hazards: Additional hazards: May form combustible dust concentrations in air.
- Protection Measures: Keep away from heat, sparks, open flames, and hot surfaces. - May cause an allergic skin reaction.

7.2. Conditions for Safe Storage, Including Any Incompatibilities Storage Conditions: Keep container closed when not in use. Store in dry, cool place. Keep away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Storage Conditions: Keep container closed when not in use. Store in dry, cool place. Keep away from direct sunlight, extremely high or low temperatures and incompatible materials.

7.3. Specific End Use(s): Typically used as an excipient.

7.4. Compatibility Incompatible Substances: Use explosion-proof electrical, ventilation, lighting equipment. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.
- Compatibility Incompatible Substances: Use explosion-proof electrical, ventilation, lighting equipment. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

- Hazardous Polymerization: Will not polymerize.


7.7. Materials for Protective Clothing and Equipment Materials for Protective Clothing: Typically used as an excipient.
- Protective Clothing: Chemically resistant materials and fabrics.
- Eye Protection: Chemical safety goggles.
- Skin Protection: Wear protective clothing.
- Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

7.8. Environmental Considerations Environmental Considerations: Emergency eye wash facilities and safety showers should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief eaves on an explosion suppression system in emergency situations.
- Environmental Considerations: Emergency eye wash facilities and safety showers should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief eaves on an explosion suppression system in emergency situations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Incompatible Materials Incompatible Material or Products: Incompatible Material or Products.
- Incompatible Material or Products: Incompatible Material or Products.

9.2. Other Information: Other information.
- Other Information: Other information.
- Other Information: Other information.

SECTION 10: STABILITY AND REACTIVITY

- Reactivity: Reactivity: Reactivity.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 10).
- Chemical Stability: Stable under recommended handling and storage conditions (see section 10).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Avoid dust accumulation. Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition.
- Conditions to Avoid: Avoid dust accumulation. Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition.

10.5. Incompatible Materials: Strong oxidizers, strong bases, strong acids.
- Incompatible Materials: Strong oxidizers, strong bases, strong acids.


SECTION 11: TOXICOLOGICAL INFORMATION

- Acute Toxicity: Acute Toxicity.
- Acute Toxicity: Acute Toxicity.

11.2. Skin and Eye Irritation: Skin and Eye Irritation.
- Skin and Eye Irritation: Skin and Eye Irritation.
- Skin and Eye Irritation: Skin and Eye Irritation.

11.3. Inhalation Exposure: Inhalation Exposure.
- Inhalation Exposure: Inhalation Exposure.
- Inhalation Exposure: Inhalation Exposure.

11.4. Carcinogenicity: Carcinogenicity.
- Carcinogenicity: Carcinogenicity.
- Carcinogenicity: Carcinogenicity.

11.5. Reproductive Toxicity: Reproductive Toxicity.
- Reproductive Toxicity: Reproductive Toxicity.
- Reproductive Toxicity: Reproductive Toxicity.

- Sensitizing Properties: Sensitizing Properties.
- Sensitizing Properties: Sensitizing Properties.

11.7. Other Information: Other information.
- Other Information: Other information.
- Other Information: Other information.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: Toxicity.
- Toxicity: Toxicity.
- Toxicity: Toxicity.


12.3. Other Information: Other information.
- Other Information: Other information.
- Other Information: Other information.

SECTION 13: DISPOSAL CONSIDERATIONS

- Clean-Up Procedures: Clean-Up Procedures.
- Clean-Up Procedures: Clean-Up Procedures.


13.3. Transportation: Transportation.
- Transportation: Transportation.
- Transportation: Transportation.

13.4. Handling and Storage: Handling and Storage.
- Handling and Storage: Handling and Storage.
- Handling and Storage: Handling and Storage.

13.5. Regulatory Information: Regulatory Information.
- Regulatory Information: Regulatory Information.
- Regulatory Information: Regulatory Information.

- Personal Protective Equipment: Personal Protective Equipment.
- Personal Protective Equipment: Personal Protective Equipment.

- Waste Treatment: Waste Treatment.
- Waste Treatment: Waste Treatment.

- Emergency and First Aid Measures: Emergency and First Aid Measures.
- Emergency and First Aid Measures: Emergency and First Aid Measures.

- Storage: Storage.
- Storage: Storage.

- Lab Safety: Lab Safety.
- Lab Safety: Lab Safety.


- Control Measures: Control Measures.
- Control Measures: Control Measures.

- Control Measures: Control Measures.
- Control Measures: Control Measures.
12.2. Persistence and degradability  Not established
12.3. Bioaccumulative potential  Not established
12.4. Mobility in soil  No additional information available
12.5. Results of PBT and vPvB assessment  No additional information available
12.6. Other adverse effects

Other Information:
Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.


SECTION 14: TRANSPORT INFORMATION
14.1. In Accordance with DOT
Not regulated for transport

14.2. In Accordance with IMDG
Not regulated for transport

14.3. In Accordance with IATA
Not regulated for transport

SECTION 15: REGULATORY INFORMATION
15.1. US Federal Regulations
Captisol/Advasep 7/SBE-AE-Beta-CD (182410-00-0)
SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard
Fire hazard

15.2. US State Regulations
Neither this product nor its chemical components appear on any US state lists.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 02/04/2016
Other Information:
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Comb. Dust
Combustible Dust
Skin Sens. 1
Skin sensitization Category 1
H317
May cause an allergic skin reaction

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.