1 Identification

· Product identifier
· Trade name: Chorizo Type Enhancer WS natural
· Product number: 8008
· Application of the substance / the mixture: Food flavorings

· Details of the supplier of the safety data sheet
DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

· Manufacturer/Supplier:
Advanced Biotech
10 Taft Road
Totowa, NJ 07512 USA

· Information department:
Product Safety Department
productsafety@adv-bio.com

· Emergency telephone number:
1(800)535-5053 (Info Trac)
1(352)323-3500 (International)
During normal business hours: 1(973)339-6242

2 Hazard(s) identification

· Classification of the substance or mixture
The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements
· GHS label elements
Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.
· Hazard pictograms: Not Applicable
· Signal word: Not Applicable
· Hazard statements: Not Applicable
· Classification system:
· NFPA ratings (scale 0 - 4)

Health = 0
Fire = 1
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

(Continued on page 2)
Trade name: Chorizo Type Enhancer WS natural

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

### 3 Composition/information on ingredients

- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
  - CAS: 57-55-6 Propylene glycol 60.0%

### 4 First-aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:** If symptoms persist consult doctor.
  - **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:**
    CO2, powder or alcoholresistant foam.
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **Special hazards arising from the substance or mixture**
    No further relevant information available.

- **Advice for firefighters**
  - **Protective equipment:** No special measures required.
  - **Additional information**
    Cool endangered receptacles with water spray.
    Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Not required.
- **Environmental precautions:**
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
  - See Section 7 for information on safe handling.
Trade name: Chorizo Type Enhancer WS natural

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:
  CAS: 57-55-6 Propylene glycol 30 mg/m³

· PAC-2:
  CAS: 57-55-6 Propylene glycol 1,300 mg/m³

· PAC-3:
  CAS: 57-55-6 Propylene glycol 7,900 mg/m³

7 Handling and storage

· Handling:
  · Precautions for safe handling: No special measures required.
  · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles:
      No special requirements.
      Please refer to product specification for product storage requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: None.
  · 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:
    CAS: 57-55-6 Propylene glycol
    WEEL Long-term value: 10 mg/m³

· Additional information: The lists that were valid during the creation were used as a basis.
  · Exposure controls
    · Personal protective equipment:
      · General protective and hygienic measures:
        The usual precautionary measures for handling chemicals should be followed.
      · Breathing equipment: Not required.
    · Protection of hands:
      The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation
      · 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

(Continued on page 4)
Trade name: Chorizo Type Enhancer WS natural

- be checked prior to the application.
  - **Penetration time of glove material**
    The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection**: Goggles recommended during refilling.

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>· Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>· General Information</td>
</tr>
<tr>
<td>· Appearance:</td>
</tr>
<tr>
<td>· Form: Liquid</td>
</tr>
<tr>
<td>· Color: According to product specification</td>
</tr>
<tr>
<td>· Odor:</td>
</tr>
<tr>
<td>· Odor: According to product specification</td>
</tr>
<tr>
<td>· Odor threshold: Not determined.</td>
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<tr>
<td>· pH-value: Not determined</td>
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</tbody>
</table>

- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- **Flash point**: >105 °C (>221 °F)
- **Flammability (solid, gaseous)**: Not applicable.
- **Ignition temperature**: 371 °C (699.8 °F)
- **Decomposition temperature**: Not determined.
- **Auto igniting**: Product is not selfigniting.
- **Danger of explosion**: Product does not present an explosion hazard.

- **Explosion limits**
  - Lower: 2.6 Vol %
  - Upper: 12.6 Vol %
- **Vapor pressure at 20 °C (68 °F)**: 23 hPa (17.3 mm Hg)
- **Density at 20 °C (68 °F)**: 1.085 g/cm³ (9.05433 lbs/gal)
  - Relative density: Not determined.
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- **Solubility in / Miscibility with**
  - Water: Fully miscible.
- **Partition coefficient (n-octanol/water)**: Not determined.
- **Viscosity**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content**
  - Organic solvents: 60.0 %
  - Water: 10.0 %
Safety Data Sheet  
acc. to OSHA HCS

Trade name: Chorizo Type Enhancer WS natural

VOC content: 60.00 %
651.0 g/l / 5.43 lb/gal

Solids content: 30.0 %

Other information
No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
  - 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: No irritant effect.
      - on the eye: No irritating effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    The product is not subject to classification according to internally approved calculation methods for preparations:
    When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- 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.
48.1.23

Additional ecological information:
- General notes:
  Water hazard class 1 (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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: Smaller quantities can be disposed of with household waste.

- Uncleaned packagings:
  Recommendation: Disposal must be made according to official 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
  Class: Not Regulated

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

- Environmental hazards:
  Not applicable.

- Special precautions for user:
  Not applicable.

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

- Transport/Additional information:
  Not dangerous according to the above specifications.

- 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 ingredients is listed.
## Trade name: Chorizo Type Enhancer WS natural

<table>
<thead>
<tr>
<th>Section 313 (Specific toxic chemical listings):</th>
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<tbody>
<tr>
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<thead>
<tr>
<th>TSCA (Toxic Substances Control Act):</th>
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<tbody>
<tr>
<td>All ingredients are listed.</td>
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<thead>
<tr>
<th>Proposition 65</th>
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<tr>
<th>Chemicals known to cause cancer:</th>
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<td>None of the ingredients is listed.</td>
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<th>Chemicals known to cause reproductive toxicity for females:</th>
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<th>Chemicals known to cause reproductive toxicity for males:</th>
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<td>None of the ingredients is listed.</td>
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<th>EPA (Environmental Protection Agency)</th>
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<tr>
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<th>TLV (Threshold Limit Value established by ACGIH)</th>
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<tbody>
<tr>
<td>None of the ingredients is listed.</td>
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<table>
<thead>
<tr>
<th>NIOSH-Ca (National Institute for Occupational Safety and Health)</th>
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<tr>
<th>Signal word</th>
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<tr>
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<table>
<thead>
<tr>
<th>Hazard statements</th>
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<table>
<thead>
<tr>
<th>Chemical safety assessment:</th>
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<tbody>
<tr>
<td>A Chemical Safety Assessment has not been carried out.</td>
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### 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.

<table>
<thead>
<tr>
<th>Department issuing SDS:</th>
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<tr>
<td>Product Safety Department</td>
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<table>
<thead>
<tr>
<th>Contact:</th>
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<tbody>
<tr>
<td>Product Safety Department</td>
</tr>
<tr>
<td><a href="mailto:productsafety@adv-bio.com">productsafety@adv-bio.com</a></td>
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<tr>
<th>Date of preparation / last revision:</th>
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<tr>
<td>02/11/2019 / -</td>
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<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
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<tbody>
<tr>
<td>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td>
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<tr>
<td>IMDG: International Maritime Code for Dangerous Goods</td>
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<tr>
<td>DOT: US Department of Transportation</td>
</tr>
<tr>
<td>IATA: International Air Transport Association</td>
</tr>
<tr>
<td>ACGIH: American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>EINECS: European Inventory of Existing Commercial Chemical Substances</td>
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<tr>
<td>ELINCS: European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>CAS: Chemical Abstracts Service (division of the American Chemical Society)</td>
</tr>
<tr>
<td>NFPA: National Fire Protection Association (USA)</td>
</tr>
<tr>
<td>HMIS: Hazardous Materials Identification System (USA)</td>
</tr>
<tr>
<td>VOC: Volatile Organic Compounds (USA, EU)</td>
</tr>
<tr>
<td>PBT: Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB: very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>NIOSH: National Institute for Occupational Safety</td>
</tr>
<tr>
<td>OSHA: Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>TLV: Threshold Limit Value</td>
</tr>
<tr>
<td>PEL: Permissible Exposure Limit</td>
</tr>
<tr>
<td>REL: Recommended Exposure Limit</td>
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</tbody>
</table>