1 Identification

- Product identifier
  - Trade name: Pure Vanilla Extract 1-Fold Bourbon (Sugar Free) natural
  - Product number: 6050
  - CAS Number: 8024-06-4
  - EC number: 283-521-8
- Application of the substance / the mixture: Food flavorings
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Advanced Biotech
    10 Taft Road
    Totowa, NJ 07512 USA
  - Information department: Product safety department
    sarfa@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
  - GHS02 Flame
    Flam. Liq. 3 H226 Flammable liquid and vapor.
- 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.
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms
  - GHS02
- Signal word: Warning
- Hazard statements
  - H226 Flammable liquid and vapor.
- Precautionary statements
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P280 Wear protective gloves / eye protection / face protection.
  - P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P403+P235 Store in a well-ventilated place. Keep cool.

(Continued on page 2)
Trade name: Pure Vanilla Extract 1-Fold Bourbon (Sugar Free) natural

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)
  - Health = 0
  - Fire = 3
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - HEALTH
  - Fire = 3
  - Reactivity = 0

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

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  8024-06-4 Vanilla Extract
- Identification number(s)
  - EC number: 283-521-8

4 First-aid measures

- Description of first aid measures
- 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 or extinguishing powder. Fight larger fires with 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.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Dilute with plenty of 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.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling:
  Precautions for safe handling: No special precautions are necessary if used correctly.
  Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
  Requirements to be met by storerooms and receptacles: No special requirements.
  Information about storage in one common storage facility: Not required.
  Further information about storage conditions: Keep receptacle tightly sealed.
- 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: Not required.
  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: Wash hands before breaks and at the end of work.
    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.
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- **Penetration time of glove material**
  The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
  Tightly sealed goggles

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form: Liquid</td>
<td></td>
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<tr>
<td>Color: Brown</td>
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<tr>
<td>Odor: Alcoholic vanilla</td>
<td></td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
<td></td>
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<tr>
<td>pH-value: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
<td></td>
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<tr>
<td>Boiling point/Boiling range: Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Flash point: &lt; 29 °C (&lt; 84 °F)</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gaseous): Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td></td>
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<tr>
<td>Decomposition temperature: Not determined.</td>
<td></td>
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<tr>
<td>Auto igniting: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
<td></td>
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<tr>
<td>Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>Lower: Not determined.</td>
<td></td>
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<tr>
<td>Upper: Not determined.</td>
<td></td>
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<tr>
<td>Vapor pressure: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Density at 20 °C (68 °F): 0.97 g/cm³ (8.095 lbs/gal)</td>
<td></td>
</tr>
<tr>
<td>Relative density Not determined.</td>
<td></td>
</tr>
<tr>
<td>Vapour density Not determined.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate Not determined.</td>
<td></td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water: Fully miscible.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water): Not determined.</td>
<td></td>
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<tr>
<td>Viscosity:</td>
<td></td>
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<tr>
<td>Dynamic: Not determined.</td>
<td></td>
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<tr>
<td>Kinematic: Not determined.</td>
<td></td>
</tr>
</tbody>
</table>

(Continued on page 5)
Trade name: Pure Vanilla Extract 1-Fold Bourbon (Sugar Free) natural

Organic solvents: 0.0 %
- Other information: No further relevant information available.

10 Stability and reactivity
- Reactivity
- 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:
  Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not 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: Generally not hazardous for water
  Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.
  Other adverse effects: No further relevant information available.

(Continued on page 6)
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- 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, IMDG, IATA: UN1197

- UN proper shipping name
  - DOT: Extracts, flavoring, liquid
  - ADR: 1197 Extracts, flavoring, liquid
  - IMDG, IATA: EXTRACTS, FLAVOURING, LIQUID

- Transport hazard class(es)
  - DOT, ADR, IMDG, IATA: Class 3 Flammable liquids

- Packing group
  - DOT, ADR, IMDG, IATA: III

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Warning: Flammable liquids

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

- Transport/Additional information:
  - DOT
  - Quantity limitations
    - On passenger aircraft/rail: 5 L
    - On cargo aircraft only: 60 L

  - ADR
    - Excepted quantities (EQ): Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml

  - IMDG
    - Limited quantities (LQ): 5L
    - Excepted quantities (EQ): Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml

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Safety Data Sheet
acc. to OSHA HCS

Printing date 06/25/2015
Reviewed on 06/25/2015

Trade name: Pure Vanilla Extract 1-Fold Bourbon (Sugar Free) natural

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

  - Section 355 (extremely hazardous substances):
    Substance is not listed.

  - Section 313 (Specific toxic chemical listings):
    Substance is not listed.

  - TSCA (Toxic Substances Control Act):
    Substance is listed.

- Proposition 65

  - Chemicals known to cause cancer:
    Substance is not listed.

  - Chemicals known to cause reproductive toxicity for females:
    Substance is not listed.

  - Chemicals known to cause reproductive toxicity for males:
    Substance is not listed.

  - Chemicals known to cause developmental toxicity:
    Substance is not listed.

- Carcinogenic categories

  - EPA (Environmental Protection Agency)
    Substance is not listed.

  - TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.

  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    Substance is not listed.

- GHS label elements

  - The substance is classified and labeled according to the Globally Harmonized System (GHS).

  - Hazard pictograms
    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.

  - Signal word
    Warning

  - Hazard statements
    H226 Flammable liquid and vapor.

  - Precautionary statements
    P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Continued on page 8)
Trade name: Pure Vanilla Extract 1-Fold Bourbon (Sugar Free) natural

- **P241**: Use explosion-proof electrical/ventilating/lighting/equipment.
- **P280**: Wear protective gloves / eye protection / face protection.
- **P303+P361+P353**: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- **P403+P235**: Store in a well-ventilated place. Keep cool.
- **P501**: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

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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.

- **Department issuing SDS**: Product safety department
- **Contact**: Sidney Arfa
- **Date of preparation / last revision**: 06/25/2015 / -
- **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
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - Flam. Liq. 3: Flammable liquids, Hazard Category 3