1 Identification

- Product identifier
- Trade name: Bitter Almond Oil natural
- Product number: 1151
- CAS Number: 8013-76-1
- EC number: 291-060-9
- 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
  GHS06 Skull and crossbones
  Acute Tox. 3 H301 Toxic if swallowed.
  Acute Tox. 3 H311 Toxic in contact with skin.
  Flam. Liq. 4 H227 Combustible liquid.

- Label elements: Harmful in contact with skin or if inhaled.
- 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).

(Continued on page 2)
Hazard pictograms

GHS06

Signal word Danger

Hazard-determining components of labeling:
Bitter Almond Oil

Hazard statements
H227 Combustible liquid.
H301+H311 Toxic if swallowed or in contact with skin.

Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)
Health = 2
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0 - 4)

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
8013-76-1 Bitter Almond Oil
Identification number(s)
EC number: 291-060-9
4 First-aid measures

· Description of first aid measures
  · General information:
    Immediately remove any clothing soiled by the product.
    In case of irregular breathing or respiratory arrest provide artificial respiration.
  · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  · After swallowing: Do not induce vomiting; immediately call for medical help.
· 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, 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
  Wear protective equipment. Keep unprotected persons away.
· Environmental precautions: 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).
  Dispose contaminated material as waste according to item 13.
  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:
    Substance is not listed.
  · PAC-2:
    Substance is not listed.
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.

- **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:** 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:**
      Keep away from foodstuffs, beverages and feed.
      Immediately remove all soiled and contaminated clothing.
      Wash hands before breaks and at the end of work.
      Store protective clothing separately.
      Avoid contact with the eyes and skin.
    - **Breathing equipment:** Not required.
    - **Protection of hands:**
      - **Protective gloves**

      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.
9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      Form: Liquid
      Color: According to product specification
    · Odor:
      Odor: According to product specification
      Odor threshold: Not determined.
    · pH-value:
      pH-value: Not determined.

· Change in condition
  · Melting point/Melting range:
    Melting point/Melting range: Undetermined.
  · Boiling point/Boiling range:
    Boiling point/Boiling range: 178 °C (352.4 °F)

· Flash point:
  Flash point: 62 °C (143.6 °F)

· Flammability (solid, gaseous):
  Flammability (solid, gaseous): Not applicable.

· Decomposition temperature:
  Decomposition temperature: Not determined.

· Auto igniting:
  Auto igniting: Not determined.

· Danger of explosion:
  Danger of explosion: Not determined.

· Explosion limits:
  Lower: Not determined.
  Upper: Not determined.

· Vapor pressure:
  Vapor pressure: Not determined.

· Density at 20 °C (68 °F):
  Density at 20 °C (68 °F): 1.05 g/cm³ (8.76225 lbs/gal)
  · Relative density:
    Relative density: Not determined.
  · Vapor density:
    Vapor density: Not determined.
  · Evaporation rate:
    Evaporation rate: Not determined.

· Solubility in / Miscibility with
  · Water:
    Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water):
  Partition coefficient (n-octanol/water): Not determined.

· Viscosity:
  · Dynamic:
    Dynamic: Not determined.
  · Kinematic:
    Kinematic: Not determined.
  · VOC content:
    VOC content: 0.00 %
  · Other information:
    Other information: 0.0 g/l / 0.00 lb/gal
    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:
    · LD/LC50 values that are relevant for classification:
      ![](Safety Data Sheet acc. to OSHA HCS Image)

      |                |       |       |
      |----------------|-------|-------|
      |                | **ATE (Acute Toxicity Estimate)** |       |
      |                | **Oral LD50** | **100 mg/kg** |
      |                | **Dermal LD50** | **300 mg/kg** |

      ![](Safety Data Sheet acc. to OSHA HCS Image)

      |                | CAS: 8013-76-1 Bitter Almond Oil |
      |                | **Oral LD50** | **100 mg/kg (ATE)** |
      |                | **Dermal LD50** | **300 mg/kg (ATE)** |

  · 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:
    Water hazard class 2 (Self-assessment): hazardous for water
48.1.23

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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: 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.

14 Transport information
- UN-Number
  UN1990

- UN proper shipping name
  DOT: Benzaldehyde
  ADR: 1990 BENZALDEHYDE
  IMDG, IATA: BENZALDEHYDE

- Transport hazard class(es)
  DOT, IMDG, IATA
  - Class: 9 Miscellaneous dangerous substances and articles
  - Label: 9

- ADR
  - Class: 9 Miscellaneous dangerous substances and articles

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

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  Warning: Miscellaneous dangerous substances and articles

(Continued on page 8)
### 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.
    - **TSCA new (21st Century Act): (Substances not listed)**
      - CAS: 8013-76-1 Bitter Almond Oil
    - **Proposition 65**
      - **Chemicals known to cause cancer:** Substance is not listed.

  WARNING: Consuming this product can expose you to chemicals including Benzene and Toluene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/food.

  - Benzene CAS-no. 71-43-2 (0.1-50 ppm)
  - Toluene CAS-no. 108-88-3 (0.1-10 ppm)
  - **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
· **Chemicals known to cause reproductive toxicity for males:**

| Substance is not listed. |

**WARNING:** Consuming this product can expose you to chemicals including Benzene and Toluene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/food.

Benzene CAS-no. 71-43-2 (0.1-50 ppm)
Toluene CAS-no. 108-88-3 (0.1-10 ppm)

· **Chemicals known to cause developmental toxicity:**

| Substance is not listed. |

**WARNING:** Consuming this product can expose you to chemicals including Benzene and Toluene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/food.

Benzene CAS-no. 71-43-2 (0.1-50 ppm)
Toluene CAS-no. 108-88-3 (0.1-10 ppm)

· **Carcinogenic categories**

| Substance is not listed. |

· **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**

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**

GHS06

· **Signal word** Danger

· **Hazard-determining components of labeling:**

| Bitter Almond Oil |

· **Hazard statements**

| H227 Combustible liquid. |
| H301+H311 Toxic if swallowed or in contact with skin. |

· **Precautionary statements**

| P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P301+P310 If swallowed: Immediately call a poison center/doctor. |
| P321 Specific treatment (see on this label). |
| P330 Rinse mouth. |
| P361+P364 Take off immediately all contaminated clothing and wash it before reuse. |

(Continued on page 10)
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:**
  - Product Safety Department
  - productsafety@adv-bio.com
- **Date of preparation / last revision** 02/11/2019 / -
- **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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - 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
  - Flam. Liq. 4: Flammable liquids – Category 4
  - Acute Tox. 3: Acute toxicity – Category 3