1 Identification

· Product identifier
· Trade name: Benzoic Acid natural
· Product number: 1161
· CAS Number: 65-85-0
· EC number: 200-618-2
· Index number: 607-705-00-8
· 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

  GHS08 Health hazard
  STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

  GHS05 Corrosion
  Eye Dam. 1 H318 Causes serious eye damage.

  GHS07
  Skin Irrit. 2 H315 Causes skin irritation.

· 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).
Trade name: Benzoic Acid natural

- Hazard pictograms
  
  ![GHS05](image1)  ![GHS08](image2)
  
  - Signal word Danger
  - Hazard-determining components of labeling:
    Benzoic acid
  - Hazard statements
    H315 Causes skin irritation.
    H318 Causes serious eye damage.
    H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.
  - Precautionary statements
    P260 Do not breathe dust/fume/gas/mist/vapors/spray.
    P280 Wear protective gloves.
    P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    P310 Immediately call a poison center/doctor.
    P321 Specific treatment (see on this label).
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
  - Classification system:
  - NFPA ratings (scale 0 - 4)
    ![Rating](image3)
    Health = 2
    Fire = 1
    Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    ![Rating](image4)
    Health = *2
    Fire = 1
    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
  65-85-0 Benzoic acid
- Identification number(s)
- EC number: 200-618-2
- Index number: 607-705-00-8
4 First-aid measures

- Description of first aid measures
- General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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. Then consult a doctor.
- After swallowing: Immediately call a 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 alcohol-resistant foam.
  - Use fire fighting measures that suit the environment.
- 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: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  - 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.

7 Handling and storage

- Handling:
  - Precautions for safe handling No special precautions are necessary if used correctly.
  - 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.
  - Information about storage in one common storage facility: Not required.
Trade name: Benzoic Acid natural

- 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.
    - Avoid contact with the eyes.
  - Breathing equipment:
    - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  - 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.
    - 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

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Solid
  - Color: White

(Continued on page 5)
Trade name: Benzoic Acid natural

| · Odor:         | Odorless          |
| · Odour threshold: | Not determined.    |
| · pH-value:     | Not applicable.   |
| · Change in condition |
| Melting point/Melting range: | 122 °C (252 °F) |
| Boiling point/Boiling range: | 250 °C (482 °F) |
| · Flash point:  | 121 °C (250 °F)  |
| · Flammability (solid, gaseous): | Product is not flammable. |
| · Ignition temperature: | 570 °C (1058 °F) |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Not determined.   |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapor pressure at 96 °C (205 °F): | 1.3 hPa (1 mm Hg) |
| · Density at 20 °C (68 °F): | 1.2659 g/cm³ (10.564 lbs/gal) |
| · Bulk density at 20 °C (68 °F): | 500 kg/m³ |
| · Relative density | Not determined. |
| · Vapour density | Not applicable. |
| · Evaporation rate | Not applicable. |
| · Solubility in / Miscibility with |
| Water at 20 °C (68 °F): | 2.9 g/l |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| Organic solvents: | 0.0 % |
| · Solids content: | 100.0 % |
| · 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.
\textbf{11 Toxicological information}

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - 65-85-0 Benzoic acid
      - Oral LD50: 1700 mg/kg (rat)
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Strong irritant with the danger of severe eye injury.
- 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.

\textbf{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 1 (Assessment by list): 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.

\textbf{13 Disposal considerations}

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

acc. to OSHA HCS

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

## Trade name: Benzoic Acid natural

(Continuation of page 6)

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<table>
<thead>
<tr>
<th>Description</th>
<th>DOT, ADR, ADN, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-Number</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>Class</td>
</tr>
<tr>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>Environmental hazards:</td>
<td>Marine pollutant:</td>
</tr>
<tr>
<td>No</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td></td>
</tr>
<tr>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Transport/Additional information:</td>
<td>Not dangerous according to the above specifications.</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td></td>
</tr>
</tbody>
</table>

## 15 Regulatory information

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety, health and environmental regulations/legislation specific for the substance or mixture</td>
</tr>
<tr>
<td>Sara</td>
</tr>
<tr>
<td>Section 355 (extremely hazardous substances):</td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Section 313 (Specific toxic chemical listings):</td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>TSCA (Toxic Substances Control Act):</td>
</tr>
<tr>
<td>Substance is listed.</td>
</tr>
<tr>
<td>Proposition 65</td>
</tr>
<tr>
<td>Chemicals known to cause cancer:</td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Chemicals known to cause reproductive toxicity for females:</td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Chemicals known to cause reproductive toxicity for males:</td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
</tbody>
</table>

(Continued on page 8)
Trade name: Benzoic Acid natural

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

- **Carcinogenic categories**
  
  - EPA (Environmental Protection Agency)
    65-85-0 | Benzoic acid | D
  
  - 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.

  GHS05  GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  Benzoic acid

- **Hazard statements**
  H315 Causes skin irritation.
  H318 Causes serious eye damage.
  H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

- **Precautionary statements**
  P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  P280 Wear protective gloves.
  P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P310 Immediately call a poison center/doctor.
  P321 Specific treatment (see on this label).
  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.

### 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)
Trade name: Benzoic Acid natural

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

(Continuation of page 8)