1 Identification

· Product identifier
· Trade name: Anisic aldehyde natural
· Product number: 1120
· CAS Number: 123-11-5
· EC number: 204-602-6
· 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 substance 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

(Continued on page 2)
Trade name: Anisic aldehyde natural

- HMIS-ratings (scale 0 - 4)
  - Health = 0
  - 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
  - 123-11-5 p-Methoxybenzaldehyde
- Identification number(s)
  - EC number: 204-602-6

### 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, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
    - CO2, powder or alcohol resistant 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: 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.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Protective Action Criteria for Chemicals

| PAC-1: | 21 mg/m³ |
| PAC-2: | 230 mg/m³ |
| PAC-3: | 300 mg/m³ |

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.

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:

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.

(Continued on page 4)
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 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

- Information on basic physical and chemical properties
  - General information
    - Appearance:
      - Form: Liquid
      - Color: According to product specification
      - Odor: According to product specification
      - Odor threshold: Not determined.
    - pH-value: Not determined.
  
- Change in condition
  - Melting point/Melting range: -1 °C (30.2 °F)
  - Boiling point/Boiling range: 248 °C (478.4 °F)

- Flash point: 109 °C (228.2 °F)

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature: 220 °C (428 °F)

- Decomposition temperature: Not determined.

- Auto igniting: Not determined.

- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:
  - Lower: 1.4 Vol %
  - Upper: 5.3 Vol %

- Vapor pressure at 20 °C (68 °F): <1 hPa (<0.8 mm Hg)

- Density at 20 °C (68 °F): 1.124 g/cm³ (9.37978 lbs/gal)

- Relative density
  - Not determined.

- Vapor density
  - Not determined.

- Evaporation rate
  - Not determined.

- Solubility in / Miscibility with
  - Water at 20 °C (68 °F): 3.3 g/l

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

- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
  - VOC content:
    - 0.00 %
    - 0.0 g/l / 0.00 lb/gal
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:
  - ATE (Acute Toxicity Estimate)
    - Dermal | LD<sub>50</sub> | >5,000 mg/kg (rabbit)
- CAS: 123-11-5 p-Methoxybenzaldehyde
  - Dermal | LD<sub>50</sub> | >5,000 mg/kg (rabbit)
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  - 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. The substance is not subject to classification.

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.
# Trade name: Anisic aldehyde natural

- **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.

## 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.

## 14 Transport information

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

## 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.
## Trade name: Anisic aldehyde natural

### (Continuation of page 6)

<table>
<thead>
<tr>
<th><strong>Section 313 (Specific toxic chemical listings):</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance is not listed.</td>
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<table>
<thead>
<tr>
<th><strong>TSCA (Toxic Substances Control Act):</strong></th>
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<td>Substance is listed.</td>
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<table>
<thead>
<tr>
<th><strong>Proposition 65</strong></th>
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<tbody>
<tr>
<td>· <strong>Chemicals known to cause cancer:</strong></td>
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<td>Substance is not listed.</td>
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<tr>
<th><strong>Chemicals known to cause reproductive toxicity for females:</strong></th>
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<tr>
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<tr>
<th><strong>Chemicals known to cause developmental toxicity:</strong></th>
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<tr>
<th><strong>Carcinogenic categories</strong></th>
</tr>
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<tbody>
<tr>
<td>· <strong>EPA (Environmental Protection Agency)</strong></td>
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<td>Substance is not listed.</td>
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<table>
<thead>
<tr>
<th><strong>TLV (Threshold Limit Value established by ACGIH)</strong></th>
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<tbody>
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<td>Substance is not listed.</td>
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<table>
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<tr>
<th><strong>NIOSH-Ca (National Institute for Occupational Safety and Health)</strong></th>
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<td>· <strong>Signal word</strong> Not Applicable</td>
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<tr>
<td>· <strong>Hazard statements</strong> Not Applicable</td>
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<tr>
<th><strong>Chemical safety assessment:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A Chemical Safety Assessment has not been carried out.</td>
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</tbody>
</table>

### 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><strong>Department issuing SDS:</strong> Product Safety Department</th>
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</table>

<table>
<thead>
<tr>
<th><strong>Contact:</strong> Product Safety Department <a href="mailto:productsafety@adv-bio.com">productsafety@adv-bio.com</a></th>
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</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Date of preparation / last revision</strong> 02/11/2019 / -</th>
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</table>

<table>
<thead>
<tr>
<th><strong>Abbreviations and acronyms:</strong></th>
</tr>
</thead>
<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>
</tr>
<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>
</tr>
<tr>
<td>CAS: Chemical Abstracts Service (division of the American Chemical Society)</td>
</tr>
<tr>
<td>NFPA: National Fire Protection Association (USA)</td>
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<tr>
<td>HMIS: Hazardous Materials Identification System (USA)</td>
</tr>
</tbody>
</table>

(Continued on page 8)
<table>
<thead>
<tr>
<th>VOC</th>
<th>Volatile Organic Compounds (USA, EU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>Lethal concentration, 50 percent</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal dose, 50 percent</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
</tr>
</tbody>
</table>

(Continuation of page 7)