1 Identification

- **Product identifier**
- **Trade name:** Methyl Acetate natural
- **Product number:** 1517
- **CAS Number:** 79-20-9
- **EC number:** 201-185-2
- **Index number:** 607-021-00-X
- **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
  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. 2  H225  Highly flammable liquid and vapor.
  - GHS07
    Eye Irrit. 2A  H319  Causes serious eye irritation.
    STOT SE 3  H336  May cause drowsiness or dizziness.

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

(Continued on page 2)
· **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**

![GHS pictograms](image)

· **Signal word** Danger

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

· **Hazard statements**
  
  H225 Highly flammable liquid and vapor.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.

· **Precautionary statements**

  P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  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 = 4  
  Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

  ![NFPA ratings](image)

· **Other hazards**

· **Results of PBT and vPvB assessment**
  
  · PBT: Not applicable.
  · vPvB: Not applicable.

(Continued on page 3)
3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  79-20-9 methyl acetate
- Identification number(s)
  - EC number: 201-185-2
  - Index number: 607-021-00-X

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- 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 fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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.
Trade name: Methyl Acetate natural

· 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:
    250 ppm
  · PAC-2:
    1,700 ppm
  · PAC-3:
    10000* ppm

7 Handling and storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  · 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: Store in a cool location.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions:
      Keep receptacle tightly sealed.
      Store in cool, dry conditions in well sealed receptacles.
  · 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: 79-20-9 methyl acetate |
    |-----------------------------|
    | PEL | Long-term value: 610 mg/m³, 200 ppm |
    | REL | Short-term value: 760 mg/m³, 250 ppm |
    |     | Long-term value: 610 mg/m³, 200 ppm |
    | TLV | Short-term value: 757 mg/m³, 250 ppm |
    |     | Long-term value: 606 mg/m³, 200 ppm |

· Additional information: The lists that were valid during the creation were used as a basis.
### Exposure controls

- **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.
  - Avoid contact with the eyes and skin.

- **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](image)

  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 breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

  ![Tightly sealed goggles](image)

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor:</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

(Continued on page 6)
### 46.0.2 Change in condition

- **Melting point/Melting range:** -98.05 °C (-144.5 °F)
- **Boiling point/Boiling range:** 57 °C (134.6 °F)
- **Flash point:** -10 °C (14 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 455 °C (851 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Not determined.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

### 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.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - ATE (Acute Toxicity Estimate)
        - Oral | LD50 | 3,705 mg/kg (rabbit)
      - CAS: 79-20-9 methyl acetate
        - Oral | LD50 | 3,705 mg/kg (rabbit)
    - Primary irritant effect:
      - on the skin: No irritant effect.
      - on the eye: 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 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.

(Continued on page 8)
Trade name: Methyl Acetate natural

- 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
  - DOT, ADR, IMDG, IATA: UN1231
- UN proper shipping name
  - DOT: Methyl acetate
  - ADR: 1231 Methyl acetate
  - IMDG, IATA: METHYL ACETATE
- Transport hazard class(es)
  - DOT
    - Class: 3 Flammable liquids
    - Label: 3
  - ADR
    - Class: 3 (F1) Flammable liquids
    - Label: 3
  - IMDG, IATA
    - Class: 3 Flammable liquids
### Safety Data Sheet

Trade name: Methyl Acetate natural

<table>
<thead>
<tr>
<th>· Label</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Packing group</td>
<td>II</td>
</tr>
<tr>
<td>· DOT, ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>· Environmental hazards:</td>
<td></td>
</tr>
<tr>
<td>· Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>· Special precautions for user</td>
<td></td>
</tr>
<tr>
<td>· Danger code (Kemler):</td>
<td>Warning: Flammable liquids</td>
</tr>
<tr>
<td>· EMS Number:</td>
<td>F-E,S-D</td>
</tr>
<tr>
<td>· Stowage Category</td>
<td>B</td>
</tr>
<tr>
<td>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Transport/Additional information:

<table>
<thead>
<tr>
<th>· DOT</th>
<th></th>
</tr>
</thead>
</table>
| · Quantity limitations | On passenger aircraft/rail: 5 L  
On cargo aircraft only: 60 L |
| · ADR |  |
| · Excepted quantities (EQ) | Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml |
| · IMDG |  |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml |

| · UN "Model Regulation": | UN 1231 METHYL ACETATE, 3, II |

### 15 Regulatory information

<table>
<thead>
<tr>
<th>· Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· SARA</td>
<td></td>
</tr>
<tr>
<td>· Section 355 (extremely hazardous substances):</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· Section 313 (Specific toxic chemical listings):</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· TSCA (Toxic Substances Control Act):</td>
<td>Substance is listed.</td>
</tr>
<tr>
<td>· Proposition 65</td>
<td></td>
</tr>
<tr>
<td>· Chemicals known to cause cancer:</td>
<td>Substance is not listed.</td>
</tr>
</tbody>
</table>
### 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
- 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
- GHS07

### Signal word
- Danger

### Hazard-determining components of labeling:
- methyl acetate

### Hazard statements
- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

### Precautionary statements
- **P210** Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **P241** Use explosion-proof electrical/ventilating/lighting/equipment.
- **P303+P361+P353** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- **P305+P351+P338** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P405** Store locked up.
- **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.
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**: 04/03/2018 / -
- **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
  - 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. 2: Flammable liquids – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3