

Tel: 973-339-6242 | Fax: 973-256-4101 |www.adv-bio.com

# Material Safety data sheet

#### 1. Identification of the substance/preparation

- Date of issue:
- Product name:
- Recommended use:
- Manufacturer:
- Emergency telephone no.:

Jan. 7, 2013 1518 Cucumber aldehyde natural Flavorings Advanced Biotech, Totowa, NJ 07512 1-800-535-5053 (Info Trac) 1-352-323-3500 (international)

#### 2. Composition/information on ingredients

- Chemical identity:
- Molecular formula:
- CAS No.:
- EINECS No.:
- EC-Index-No.:

#### 3. Hazards identification

Irritant. Irritating to eyes, respiratory system and skin. Combustible.

#### 4. First aid measures

- After inhalation:
- After skin contact:
- After eye contact:
- After swallowing:

Natural Trans-2-Nonenal C<sub>9</sub>H<sub>16</sub>O 18829-56-6 219-562-5 N/a

Provide with fresh air Take off immediately all contaminated clothing, wash immediately with plenty of water Rinse thoroughly with plenty of water and seek medical advice Immediately drink plenty of water. Seek medical advice and show this container or label

#### 5. Fire-fighting measures

- Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), foam, powder
- Special protective equipment for fire fighting: Do not stay in danger zone without self-contained breathing apparatus.
- Other information: Cool container with water spray water from a safe distance. Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater. Keep away from sources of ignition.





Tel: 973-339-6242 | Fax: 973-256-4101 |www.adv-bio.com

## Special risks:

May form explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapors possible in the event of fire.

#### 6. Accidental release measures

- Person-related precautionary measures: do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.
- Environmental-protection measures: do not allow to enter sewerage system.
- Procedures for cleaning / absorption: take up with liquid-absorbent material. Forward for disposal. Clean affected area.

## 7. Handling and storage

• Handling:

Take precautionary measures against static discharges. Keep away from source of ignition. When using do not eat or drink.

• Storage:

Tightly closed, in a well-ventilated place. Keep away from source of ignition - no smokina.

## 8. Exposure controls and personal protection

 Exposure limits none

## Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

- Required when vapors / aerosols are Respiratory protection:
- Eye protection:
- Hand protection:
- Industrial hygiene:

generated.

- Wear eye / face protection
- Wear suitable gloves
- Change contaminated clothing. Application of
  - skin-protective barrier cream recommended. Wash hands after working with substance.

## 9. Physical and chemical properties:

•	Form: Color:	Liquid Colorless to hazy/cloudy pale yellow
	Odor:	Fatty, cucumber
	pH value at 10 g/l H <sub>2</sub> O	N/a

10 Taft Road | Totowa, NJ 07512

Tel: 973-339-6242 | Fax: 973-256-4101 |www.adv-bio.com





<ul> <li>Flash point:</li> <li>Boiling point:</li> <li>Melting point:</li> <li>Explosive properties:</li> <li>Lower explosion limits:</li> <li>Upper explosion limits:</li> <li>Ignition temperature:</li> <li>Oxidizing properties:</li> <li>Vapor pressure:</li> <li>Density/specific gravity@20°C:</li> <li>Solubility in water: organic solvents:</li> <li>Partition coefficient (log p O/W):</li> <li>Relative vapor density (air=1):</li> <li>Vaporization rate:</li> <li>Solvent separation test (%)</li> </ul>	84°C 88-90°C/12 mm N/a N/a N/a N/a N/a N/a 0.930 - 0.960 Insoluble Soluble N/a N/a N/a N/a
Solvent content:	N/a
<ul> <li>10. Stability and reactivity</li> <li>Conditions to be avoided:</li> <li>Substances to be avoided:</li> <li>Hazardous decomposition products:</li> <li>Further information:</li> </ul>	Heating Strong oxidizing agents No information available N/a
<ul> <li>11. Toxicological information</li> <li>LD<sub>50</sub> oral, rat:</li> <li>LD<sub>50</sub> dermal, rabbit:</li> <li>LD<sub>50</sub> inhalation, rat:</li> <li>Further toxicological information:</li> </ul>	No information available No information available No information available Chronic Exposure-Mutagen Species: Rat Dose: 10UMOL/L Cell type: liver Mutation test: Micronucleus test
<ul> <li>12. Ecological information</li> <li>Biologic degradation Biodegradation:</li> </ul>	No information available
• Ecotoxic effects Biological effects: Fish toxicity: Bacterial toxicity:	No information available No information available No information available

10 Taft Road | Totowa, NJ 07512



Tel: 973-339-6242 | Fax: 973-256-4101 |www.adv-bio.com



Daphnia toxicity: Algeal toxicity: No information available No information available

• Further ecological data Do not allow to enter waters, drain or soil

## 13. Disposal considerations

- **Product:** according to official local regulations.
- Packing: according to official local regulations.

# 14. Transport information

• Not subject to transport regulations.

## 15. Regulatory information

• Labeling according to EC Dire	abeling according to EC Directives:			
Symbol:	Xi	Irritant		
R-phrases:	36/37/38	Irritating to eyes, respiratory system and skin		
S-phrases:	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
	36/37/38	Wear suitable protective clothing, gloves and eye/face protection		
EC-No.:		219-562-5		

## 16. Other information

• The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Issued by:	Advanced Biotech
	10 Taft Road
	Totowa, NJ 07512 - USA
Contact person:	Robert S. DeSimone, Ph.D., M.B.A.