

# Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)

Date of issue: 12/31/2024

Reviewed on 12/31/2024

## 1 Identification

- **Product identifier**
- **Trade name:** (E,Z),2,6-NONADIENAL 10% OS NATURAL
- **CAS Number:** 557-48-2/65381-09-1
- **Other means of identification**
- **Product number:** 1939
- **EINECS Number:** 209-178-6/265-724-3
- **Application of the substance / the mixture** Flavoring Ingredients

- **Details of the supplier of the safety data sheet**

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- **Manufacturer/Supplier:**

Advanced Biotech  
10 Taft Road  
Totowa, NJ 07512 USA

- **Information department:**

Product Safety Department  
productsafety@adv-bio.com

- **Emergency telephone number:**

Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International)  
Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



Sensitization - skin 1 H317 May cause an allergic skin reaction.

- **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 product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



- **Signal word** Warning

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

2,6-Nonadienal

- **Hazard statements**

H317 May cause an allergic skin reaction.

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**Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Information pertaining to particular dangers for man and environment:**

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0  
FIRE 1 Fire = 1  
REACTIVITY 0 Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

**Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

- Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

|                   |                |                                 |         |
|-------------------|----------------|---------------------------------|---------|
| CAS: 557-48-2     | 2,6-Nonadienal | ⚠ Sensitization - skin 1B, H317 | 2.5-10% |
| EINECS: 209-178-6 |                |                                 |         |

**4 First-aid measures**

**Description of first aid measures**

- General information:** Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air and be sure to call for a doctor.

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.

- After swallowing:** If symptoms persist consult doctor.

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- **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:**  
 CO<sub>2</sub>, powder or alcoholresistant foam.  
 CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray 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:**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Dispose contaminated material as waste according to section 13.  
 Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**  
 None of the ingredients is listed.

· **PAC-2:**  
 None of the ingredients is listed.

· **PAC-3:**  
 None of the ingredients is listed.

- **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**

- **Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.
- **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.

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- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as a basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.
- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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:** Goggles recommended during refilling.

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information** Molecular Weight: 46 g/mol
- **Physical state** Liquid
- **Color:** According to product specification
- **Odor:** According to product specification
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

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|   |   |
|---|---|
| · <b>Flammability:</b>                            | Not applicable.                                       |
| · <b>Explosion limits:</b>                        |   |
| · <b>Lower:</b>                                   | 2.1 Vol %   |
| · <b>Upper:</b>                                   | 11.5 Vol %  |
| · <b>Flash point:</b>                             | >110 °C (>230 °F)                                     |
| · <b>Decomposition temperature:</b>               | Not determined.                                       |
| · <b>pH-value:</b>                                | Not determined.                                       |
| · <b>Viscosity:</b>                               |   |
| · <b>Kinematic:</b>                               | Not determined.                                       |
| · <b>Dynamic:</b>                                 | Not determined.                                       |
| · <b>Solubility in / Miscibility with</b>         |   |
| · <b>Water at 20 °C (68 °F):</b>                  | 1,000 g/l   |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                                       |
| · <b>Vapor pressure at 20 °C (68 °F):</b>         | 97 hPa (72.8 mm Hg)                                   |
| · <b>Vapor pressure at 50 °C (122 °F):</b>        | 360 hPa (270 mm Hg)                                   |
| · <b>Density at 20 °C (68 °F):</b>                | 0.935-0.96 g/cm <sup>3</sup> (7.80258-8.0112 lbs/gal) |
| · <b>Relative density</b>                         | Not determined.                                       |
| · <b>Refractive Index</b>                         |   |
| · <b>Vapor density</b>                            | Not determined.                                       |
| · <b>Particle characteristics</b>                 | Not applicable.                                       |

|  |   |
|--|---|
| · <b>Other information</b>   |   |
| · <b>Appearance:</b>   |   |
| · <b>Form:</b>   | Liquid  |
| · <b>Important information on protection of health and environment, and on safety.</b> |   |
| · <b>Ignition temperature:</b>   | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>  | Product does not present an explosion hazard. |
| · <b>Solvent content:</b>  |   |
| · <b>VOC content:</b>  | 0.00 %<br>0.0 g/l / 0.00 lb/gal               |
| · <b>Solids content:</b>   | 0.0 %   |
| · <b>Change in condition</b>   |   |
| · <b>Evaporation rate</b>  | Not determined.                               |

**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.

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**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
 The product shows the following dangers according to internally approved calculation methods for preparations:  
 Irritant
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 2 (Self-assessment): hazardous for water  
 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.

**13 Disposal considerations**

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

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

**14 Transport information**

|  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not Regulated  |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not Regulated  |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, ADN, IMDG, IATA</b>  |  |
| · <b>Class</b>   | Not Regulated  |
| · <b>Packing group</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not Regulated  |
| · <b>Environmental hazards:</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>UN "Model Regulation":</b>  | Not Regulated  |

**15 Regulatory information**

|   |
|---|
| · <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |
| · <b>Sara</b>   |
| · <b>Section 355 (extremely hazardous substances):</b>  |
| None of the ingredients is listed.  |
| · <b>Section 313 (Specific toxic chemical listings):</b>  |
| None of the ingredients is listed.  |
| · <b>TSCA (Toxic Substances Control Act):</b>   |
| All components have the value ACTIVE.   |
| · <b>Hazardous Air Pollutants</b>   |
| None of the ingredients is listed.  |
| · <b>Proposition 65</b>   |
| · <b>Chemicals known to cause cancer:</b>   |
| None of the ingredients is listed.  |
| · <b>Chemicals known to cause reproductive toxicity for females:</b>                                    |
| None of the ingredients is listed.  |
| · <b>Chemicals known to cause reproductive toxicity for males:</b>                                      |
| None of the ingredients is listed.  |

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

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is 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 product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

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

2,6-Nonadienal

· **Hazard statements**

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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.

· **Relevant phrases**

H317 May cause an allergic skin reaction.

· **Department issuing SDS:** Product Safety Department

· **Contact:**

Product Safety Department

productsafety@adv-bio.com

· **Date of previous version** 03/21/2024

· **Date of preparation** 12/31/2024

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**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified 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)  
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  
Sensitization - skin 1: Skin sensitisation – Category 1  
Sensitization - skin 1B: Skin sensitisation – Category 1B

US