

Date of issue: 01/24/2025

Reviewed on 01/24/2025

1 Identification

· Product identifier

- [·] Trade name: Oxidized Oil High Dienals Natural
- · CAS Number: 2363-88-4/25152-83-4
- · Other means of identification
- · Product number: 1683
- EC number: 219-114-9
- · 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

GHS07

Acute toxicity - dermal 4 H312 Harmful in contact with skin.

Skin irritation 2 H315 Causes skin irritation.

Eye irritation 2A H319 Causes serious eye irritation.

· 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

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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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	(Continuation of page 1)
Hazard-detern	nining components of labeling:
2,4-Decadienal	
Hazard statem	
	n contact with skin.
H315 Causes s	
	erious eye irritation.
Precautionary	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Information pe	ertaining to particular dangers for man and environment:
Classification	system:
NFPA ratings	(scale 0 - 4)
HMIS-ratings	
FIRE 1	lealth = 2 Fire = 1 Reactivity = 0
Other hazards	
	Γ and vPvB assessment
PBT: Not appli	
vPvB: Not app	
	according to (d)(1)(ii) of § 1910.1200
	er does not object to the classifications provided by importers or manufacturers of
precursor prod	
	therwise classified
	dverse physical or health effects known that are not covered by the hazard classes of the
Hazard Comm	unications Standard.
Compositio	n/information on ingredients
	acterization: Substances
CAS No. Desc	
2363-88-4 2,4-	
Identification	numper(s)
dentification	

- EC number: 219-114-9
- · Chemical characterization: Mixtures

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

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· Dangerous compor	nents:	
EINECS: 219-114-9	2,4-Decadienal Acute toxicity - dermal 4, H312; Skin irritation 2, H315; Eye irritation 2A, H319	50-100%
CAS: 25152-83-4 EINECS: 219-114-9	(E,Z)-2,4-Decadienal Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335	≥2.5-<10%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

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: 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.
- **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 alcoholresistant foam.

CO2, 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.

Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients is listed.

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· 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 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:

Please refer to the product specification and/or Certificate of Analysis for product storage requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 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:

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: Not required.
- 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

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• **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:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemic	al properties
General Information	
 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:	114 °C (237.2 °F) (@ 10 mm)
Flammability:	Not applicable.
Explosion limits:	
· Lower:	Not determined.
Upper:	Not determined.
Flash point:	101 °C (213.8 °F)
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	
· Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
Vapor pressure:	
Density at 20 °C (68 °F):	0.88 g/cm³ (7.3436 lbs/gal)
Relative density	Not determined.
Refractive Index	
· Vapor density	Not determined.
Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Liquid
	(Continued on page



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- Important information on protection of health and environment, and on safety.
- Ignition temperature:
- Danger of explosion:
- · Solvent content:
- · VOC content:
- · Change in condition
- · Evaporation rate

Product is not selfigniting. Product does not present an explosion hazard.

0.00 % 0.0 g/l / 0.00 lb/gal

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.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Dermal LD50 1,358 mg/kg (ATE)

CAS: 2363-88-4 2,4-Decadienal

Dermal LD50 1,100 mg/kg (ATE)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

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.

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· 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.

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

14 Transport information · UN-Number · DOT, ADN, IMDG, IATA · UN proper shipping name

· DOT, ADN, IMDG, IATA	Not Regulated	
 Transport hazard class(es) 		
· DOT, ADN, IMDG, IATA · Class	Not Regulated	
 Packing group DOT, IMDG, IATA 	Not Regulated	
 Environmental hazards: Marine pollutant: 	No	
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ACTIVE



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 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.	$\langle \rangle$
· Transport/Additional information:	Not dangerous according to t	he above specifications.
· Special precautions for user	Not applicable.	
· UN "Model Regulation":	Not Regulated	

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

CAS: 2363-88-4 2,4-Decadienal

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· 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).

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Hazard pictog	rams
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GHS07	(7)
Signal word W	/arning
Hazard-determ	nining components of labeling:
2,4-Decadienal	
Hazard statem	ients
H312 Harmful i	n contact with skin.
H315 Causes s	
	erious eye irritation.
Precautionary	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Chemical safe	ty assessment: A Chemical Safety Assessment has not been carried out.

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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

- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- · Department issuing SDS: Product Safety Department
- · Contact:
- **Product Safety Department**
- productsafety@adv-bio.com
- Date of previous version 01/10/2023
- Date of preparation 01/24/2025
- · 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) LC50: Lethal concentration, 50 percent

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(Continuation of page 9) 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 REL: Recommended Exposure Limit REL: Recommended Exposure Limit Acute toxicity - dermal 4: Acute toxicity – Category 4 Skin irritation 2: Skin corrosion/irritation – Category 2 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3