

Printing date 01/16/2024

Reviewed on 01/16/2024

# 1 Identification

#### · Product identifier

- Trade name: Octanal 50% in Orange Oil natural
- · Product number: 1043
- · 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

GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



H315 Causes skin irritation.

Eye Irritation 2A

Intation 2A H3190

H319 Causes serious eye irritation.

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).

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# · Chemical characterization: Mixtures

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

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Dangerous componen	-	05 500/
CAS: 124-13-0 EINECS: 204-683-8	Octanal Flammable Liquids 3, H226;  Skin Irritation 2, H315; Eye Irritation 2A, H319	_ 25-50%
CAS: 8008-57-9 EC number: 307-891-8	Orange oil Flammable Liquids 3, H226; Aspiration Hazard 1, H304; Skin Irritation 2, H315; Sensitization - Skin 1, H317	_ 25-50%

## 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. 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 section 13. Ensure adequate ventilation.
- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.	(Continuation of page
• PAC-1:	
CAS: 124-13-0 Octanal	17 mg/m³
PAC-2:	
CAS: 124-13-0 Octanal	190 mg/m³
PAC-3:	
CAS: 124-13-0 Octanal	1,100 mg/m <sup>3</sup>
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: No special requirements.

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

· Additional information about design of technical systems: No further data; see section 7.

- · 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
- · 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:

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.

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### · 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 guality 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 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: Undetermined. **Boiling point/Boiling range:** Undetermined. · Flash point: 55.2 °C (131.4 °F) · Flammability (solid, gaseous): Flammable. · Auto igniting: 210 °C (410 °F)

· Ignition temperature: Product is not selfigniting.

· Decomposition temperature:

Danger of explosion:

· Explosion limits: Lower:

Not determined.

Not determined.

Not determined.

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Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.823-0.863 g/cm³ (6.86794-7.20174 lbs/gal)	
Specific Gravity	0.823 - 0.863 @ 20`°C (33.5 - 33.6 @ 68 °F)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/v	vater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
	No further relevant information available.	

## 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.

1	1 Toxicological information
	<ul> <li>Information on toxicological effects</li> <li>Acute toxicity:</li> </ul>
	· LD/LC50 values that are relevant for classification:
	CAS: 124-13-0 Octanal
	Oral LD50 5,630 mg/kg (rat)
	Dermal LD50 6,350 mg/kg (rabbit)
	Primary irritant effect:
	• on the skin: No irritant effect.
	<ul> <li>on the eye: Irritating effect.</li> <li>Sensitization: Sensitization possible through skin contact.</li> </ul>
	· Additional toxicological information:
	The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

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#### Trade name: Octanal 50% in Orange Oil natural

#### · 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.

## 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · 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:

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.

· UN-Number	
DOT, IMDG, IATA	UN1993
· UN proper shipping name	
·DOT	Flammable liquids, n.o.s. (Extracts, liquid, for aroma, Octyl aldehydes)
·IMDG	FLÁMMABLE LIQUID, N.O.S. (Extracts, liquid, for aroma, OCTYL ALDEHYDES), MARINE POLLUTANT



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Trade name: Octanal 50% in Orange Oil natural (Continuation of page 7) ·IATA FLAMMABLE LIQUID, N.O.S. (Extracts, liquid, for aroma, OCTYL ALDEHYDES) · Transport hazard class(es) · DOT Class 3 Flammable liquids · Label 3 · IMDG · Class **3 Flammable liquids** · Label 3 ·IATA · Class **3** Flammable liquids · Label 3 Packing group DOT, IMDG, IATA Ш · Environmental hazards: Product contains environmentally hazardous substances: Proprietary Ingredient · Marine pollutant: Yes Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-E Stowage Category А · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · DOT Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L Special marking with the symbol (fish and tree). · Remarks: (Continued on page 9) us



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<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (EXTRACTS, LIQUID, FOR AROMA, OCTYL ALDEHYDES), 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regul	latory i	nformation

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

<ul> <li>Section 355 (extremely</li> </ul>	hazardous	substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

### • TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

#### · 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).

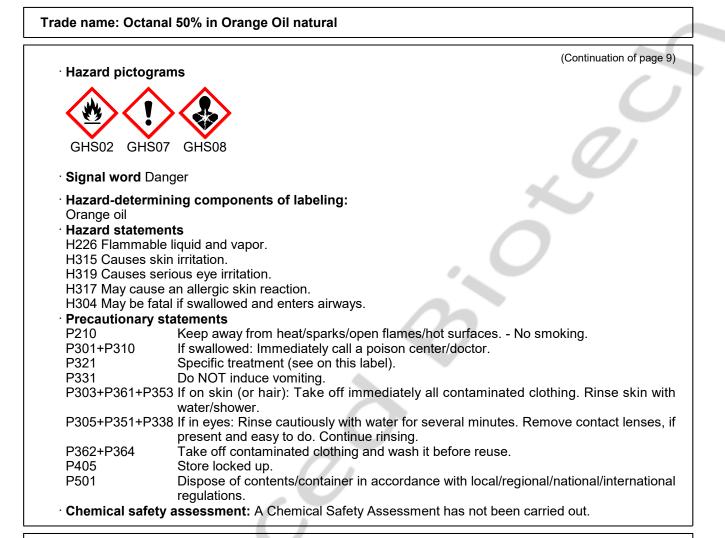
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## 16 Other information

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

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- · Department issuing SDS: Product Safety Department

#### Contact:

Product Safety Department

productsafety@adv-bio.com

- Date of preparation / last revision 01/16/2024
- 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

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FUNCE: Furgement List of Natified Chamical Substances	(Continuation of page 10)
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 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 Flammable Liquids 3: Flammable liquids – Category 3 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1 Aspiration Hazard 1: Aspiration hazard – Category 1	.0
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