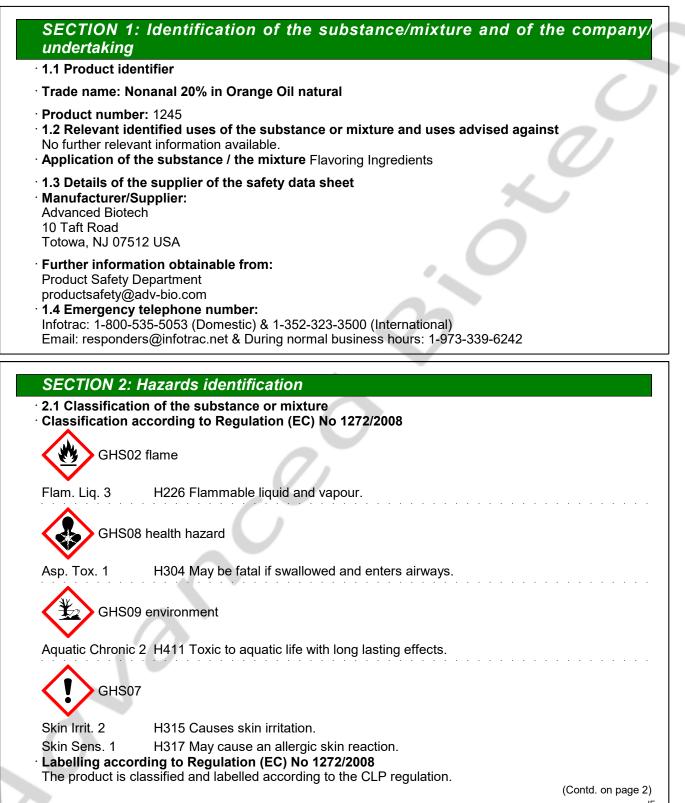


according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025





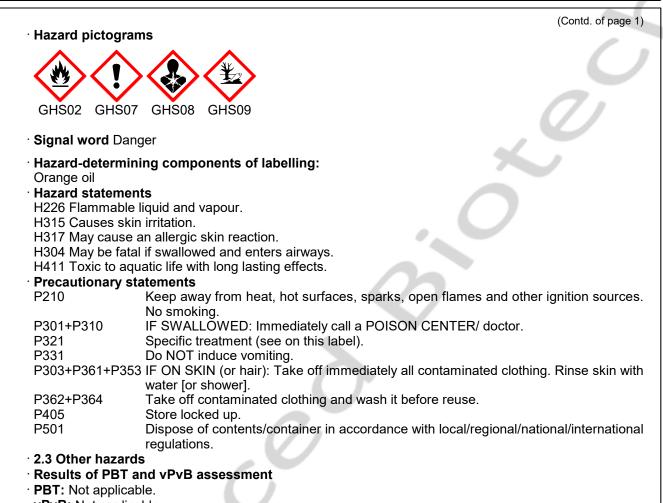
according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural



· vPvB: Not applicable.

· 3.2 Mixtures

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

· Dangerous components:			
CAS: 8008-57-9	Orange oil	50-100%	
EC number: 307-891-8	Image Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; ♦ Skin Sens. 1, H317		
CAS: 124-19-6	Nonanal	10-25%	
EINECS: 204-688-5	🚸 Skin Irrit. 2, H315		
• Additional information: For the wording of the listed hazard phrases refer to section 16.			

SECTION 4: First aid measures

• 4.1 Description of first aid measures

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

(Contd. on page 3)

IF



according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

(Contd. of page 2)

• 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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 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.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- 6.4 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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.

(Contd. on page 4)



according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

(Contd. of page 3)

- 7.2 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 container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients 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 valid during the making were used as a basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



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.

(Contd. on page 5)



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

(Contd. of page 4)

Eye/face protection		(Conto. of page
Tightly sealed goggles		
		A .
SECTION 9: Physical and chemical pr	operties	
9.1 Information on basic physical and chemic	al properties	
General Information		
Physical state	Liquid	
Colour:	According to product specification	
Odour:	According to product specification	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boilin	g	
range	Undetermined.	
Flammability	Flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	<60 °C	
Decomposition temperature:	Not determined.	
рН	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value	e) Not determined.	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density at 20 °C:	0.855 g/cm³	
Relative density	Not determined.	
Refractive Index		
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Liquid	
Important information on protection of health		
and environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Solvent content:		
VOC (EC)	0.00 %	
Change in condition		
Evaporation rate	Not determined.	

(Contd. on page 6)

IE



according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

	(Contd. of page	5
Information with regard to physical ha	azard	
classes		
· Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard May be fatal if swallowed and enters airways.

(Contd. on page 7)



according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

· 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (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. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

14.1 UN number or ID number		
· ADR, IMDG, IATA	UN1197	
14.2 UN proper shipping name		
ADR	1197 EXTRACTS, LIQUID, ENVIRONMENTALL HAZARDOUS	
· IMDG	EXTRACTS, LIQUID, MARINE POLLUTANT	
	Extracts, liquid	

(Contd. of page 6)



according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural (Contd. of page 7) · 14.3 Transport hazard class(es) · Class 3 (F1) Flammable liquids. 3 · Label · IMDG · Class 3 Flammable liquids · Label 3 ·IATA 3 Flammable liquids. · Class · Label 3 [•] 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Product contains environmentally hazardous substances: Orange oil • Marine pollutant: Yes Symbol (fish and tree) Symbol (fish and tree) · Special marking (ADR): · 14.6 Special precautions for user Warning: Flammable liquids. Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-D Stowage Category А · 14.7 Maritime transport in bulk according to **IMO instruments** Not applicable. • Transport/Additional information: · ADR · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category 3 • Tunnel restriction code D/E (Contd. on page 9)

IF



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

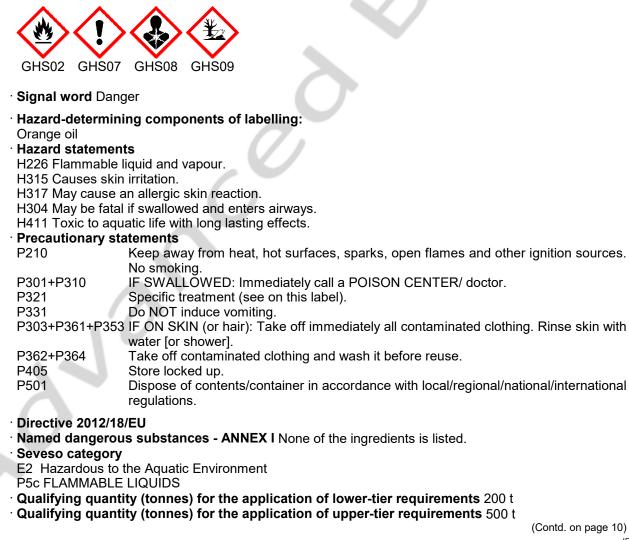
Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

	(Contd. of page 8)
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTIO	N 15: Reg	ulatory	information
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- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms





according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Nonanal 20% in Orange Oil natural

(Contd. of page 9)

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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: 08.01.2025
- 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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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) VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids - Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2