

according to 29 CFR 1910.1200(g)

NATURAL DECANAL 50% ENRICHED ORANGE OIL FRACTION

Revision date: 11/19/2024

Product code: 236210US

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1. Identification

Product identifier

NATURAL DECANAL 50% ENRICHED ORANGE OIL FRACTION

CAS No:

68606-94-0

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

Details of the supplier of the safety data sheet

Company name:	Axxence Aromatic GmbH	
Street:	Tackenweide 28	
Place:	D-46446 Emmerich am Rhein	
Telephone:	+ 49 2822 68561 0	Telefax:+ 49 2822 68561 39
E-mail:	info@axxence.com	
Contact person:	Safety Team	Telephone: + 49 2822 68561 0
E-mail:	safety-documentation@axxence.com	
Internet:	www.axxence.de	
Responsible Department:	Safety Management	
Emergency phone number:	+49 2822 68561 99	

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2A Respiratory or skin sensitization: Skin Sens. 1

Label elements

29 CFR Part 1910.1200

Signal word:

Warning

Pictograms:



Hazard statements

Combustible liquid Causes skin irritation and serious eye irritation May cause an allergic skin reaction

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

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

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.



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Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use Foam / Dry extinguishing powder / Carbon dioxide (CO2) / Water spray to extinguish.

Store in a well-ventilated place.

Dispose of contents/container to Organic waste.

3. Composition/information on ingredients

<u>Mixtures</u>

Relevant ingredients

CAS No	Components	Quantity
112-31-2	NATURAL ALDEHYDE C-10 (DECANAL)	50 - 100 %
78-70-6	NATURAL LINALOOL	10 - 25 %
5392-40-5	NATURAL CITRAL	2,5 - 10 %
98-55-5	NATURAL ALPHA-TERPINEOL	2,5 - 10 %
106-23-0	NATURAL CITRONELLAL	2,5 - 10 %
562-74-3	NATURAL 4-TERPINENOL	1 - 2,5 %
111-87-5	NATURAL 1-OCTANOL	1 - 2,5 %
2111-75-3	PERILLA ALDEHYDE	1 - 2,5 %
106-22-9	NATURAL CITRONELLOL	<1 %
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	<1 %

4. First-aid measures

Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

Non-flammable. Vapors may form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.



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Additional information

Use water spray jet to protect personnel and to cool endangered containers. Supress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	Category	Origin
5392-40-5	Citral (inhalable fraction and vapor)	5	32	TWA (8 h)	ACGIH-2024



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Exposure controls





Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

Suitable gloves type: Disposable gloves + NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	light yellow
Melting point/freezing point:	not determined
Boiling point or initial boiling point and	195 °C
boiling range:	
Flammability:	not determined
Lower explosion limits:	0,9 vol. %
Upper explosion limits:	5,2 vol. %
Flash point:	85 °C
Auto-ignition temperature:	195 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	No
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapor pressure:	0,16 hPa
(at 20 °C)	
Vapor pressure:	2 hPa
(at 50 °C)	
Density (at 20 °C):	0,85 g/cm³
Relative vapour density:	not determined
Other information	
Information with regard to physical haz	ard classes

Explosive properties The product is not: Explosive not ex

The product is not: Explosive. not explosive according to EU A.14 Oxidizing properties

The product is not: oxidising.



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Other safety characteristics			
Evaporation rate:	not determined		
Solvent content:	0%		
Solid content:	0%		

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

none

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	S No Components					
	Exposure route	Dose		Species	Source	Method
112-31-2	NATURAL ALDEHY	DE C-10 (DEC/	ANAL)	•	·	÷
	oral	LD50 mg/kg	>5000	Rat	REACH Dossier	
	dermal	LD50 mg/kg	>5000	Rabbit	REACH Dossier	
78-70-6	NATURAL LINALOO	L .				
	oral	LD50 mg/kg	2790	Rat	REACH registration	OECD 401
	dermal	LD50 mg/kg	5610	Rabbit	REACH registration	OECD 402
5392-40-5	NATURAL CITRAL					
	oral	LD50 mg/kg	6800	Rat	REACH registration	
	dermal	LD50 mg/kg	>2000	Rat	REACH registration	
98-55-5	NATURAL ALPHA-T	ERPINEOL				
	oral	LD50 mg/kg	4300	Rat	REACH Dossier	OECD 401
	dermal	LD50 mg/kg	>2000	Rat	REACH Dossier	OECD 402
106-23-0	NATURAL CITRONE	LLAL				
	oral	LD50 mg/kg	2423	Rat	REACH Registration	OECD 401
	dermal	LD50 mg/kg	>2500	Rabbit	REACH Registration	
562-74-3	NATURAL 4-TERPIN	IENOL			1	
	oral	LD50 mg/kg	1300	Rat	REACH registration	OECD 401
	dermal	LD50 mg/kg	>2500	Rabbit	REACH registration	OECD 402
111-87-5	NATURAL 1-OCTAN	OL		-	I	-
	oral	LD50 mg/kg	>5000	Rat	REACH Registration	OECD 401
	dermal	LD50 mg/kg	>5000	Rat	REACH Registration	EPA OPPTS 870.1200
2111-75-3	PERILLA ALDEHYDI	<u> </u>				-
	oral	LD50 mg/kg	1720	Mouse		
	dermal	LD50 mg/kg	>5000	Pig		
106-22-9	NATURAL CITRONE	LLOL				
	oral	LD50 mg/kg	3450	Rat	REACH Registration	
	dermal	LD50 mg/kg	2650	Rabbit	REACH Registration	
5989-27-5	(R)-p-mentha-1,8-die	ne, d-limonene)			
	oral	LD50 mg/kg	5300	Rat	IFA GESTIS	



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	dermal	LD50 ma/ka	>5000	Rabbit	REACH registration	OECD 402	

Irritation and corrosivity

. . . .

Skin corrosion/irritation: Causes skin irritation Serious eye damage/eye irritation: Causes serious eye irritation

Sensitizing effects

May cause an allergic skin reaction (NATURAL LINALOOL; NATURAL CITRAL; NATURAL CITRONELLAL; PERILLA ALDEHYDE; NATURAL CITRONELLOL; (R)-p-mentha-1.8-diene, d-limonene)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA):	No ingredient of this mixture is listed.
Carcinogenicity (IARC):	d-Limonene (CAS 5989-27-5) is listed in group 3.
Carcinogenicity (NTP):	No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on other hazards

Endocrine disrupting properties

No information available.

Other information

No information available.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods



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Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

U.S. DOT 49 CFR 172.101 Proper shipping name:

Marine transport (IMDG)

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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No dangerous good in sense of this transport regulation.

UN number or ID number: UN proper shipping name: Transport hazard class(es): Packing group:

Air transport (ICAO-TI/IATA-DGR) <u>UN number or ID number:</u> <u>UN proper shipping name:</u> <u>Transport hazard class(es):</u> <u>Packing group:</u>

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 311/312 Hazards:

NATURAL ALDEHYDE C-10 (DECANAL) (112-31-2): Immediate (acute) health hazard NATURAL LINALOOL (78-70-6): Immediate (acute) health hazard NATURAL CITRAL (5392-40-5): Immediate (acute) health hazard NATURAL ALPHA-TERPINEOL (98-55-5): Immediate (acute) health hazard NATURAL CITRONELLAL (106-23-0): Immediate (acute) health hazard NATURAL 4-TERPINENOL (562-74-3): Immediate (acute) health hazard NATURAL 1-OCTANOL (111-87-5): Immediate (acute) health hazard PERILLA ALDEHYDE (2111-75-3): Immediate (acute) health hazard NATURAL CITRONELLOL (106-22-9): Immediate (acute) health hazard NATURAL CITRONELLOL (106-22-9): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information				
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Abbreviations and acronyms ADR: Accord européen sur le transport 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 Harmonized 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Other data The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)