Print date: 09/27/2024



# **Safety Data Sheet**

according to 29 CFR 1910.1200(g)

#### NATURAL OCTANAL 50% ENRICHED ORANGE OIL FRACTION

Revision date: 07/21/2023 Product code: 279700US Page 1 of 12

## 1. Identification

#### **Product identifier**

NATURAL OCTANAL 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. 3 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**

Flammable liquid and vapor

Causes skin irritation

May cause an allergic skin reaction Causes serious eye irritation

#### **Precautionary statements**

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

Wash hands thoroughly after handling.

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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 on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use Foam / Carbon dioxide (CO2) / Extinguishing powder to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container to Organic waste.

#### **Hazards not otherwise classified**

No information available.

## 3. Composition/information on ingredients

#### **Mixtures**

## Relevant ingredients

CAS No	Components	Quantity
124-13-0	NATURAL ALDEHYDE C-8 (OCTANAL)	25 - 55 %
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	25 - 55 %
123-35-3	NATURAL MYRCENE	2,5 - 10 %
80-56-8	NATURAL ALPHA-PINENE	1,0 - 2,5 %
6728-26-3	NATURAL TRANS-2-HEXENAL	0,1 - 1,0 %
127-91-3	NATURAL BETA-PINENE	0,1 - 1,0 %
78-70-6	NATURAL LINALOOL	0,0 - 0,1 %

#### 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

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**



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#### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

Water

## Specific hazards arising from the chemical

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.

#### 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

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

#### 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

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

#### 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. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

#### 8. Exposure controls/personal protection

#### **Control parameters**

#### **Exposure limits**

CAS No	Substance	ppm	mg/m³	Category	Origin
127-91-3	Selected monoterpenes: pin-2(10)-ene	20	112	TWA (8 h)	ACGIH-2024
80-56-8	Selected monoterpenes: pin-2(3)-ene	20	112	TWA (8 h)	ACGIH-2024

#### **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: colorless

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

167 °C

boiling range:

Flammability: not determined Lower explosion limits: 0,7 vol. % Upper explosion limits: 6,5 vol. % Flash point: 39 °C Auto-ignition temperature: 196 °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



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Vapor pressure: 2,78 hPa

(at 20 °C)

Vapor pressure: 12,4 hPa

(at 50 °C)

Density: 0,83 g/cm³
Relative vapour density: not determined

#### Other information

## Information with regard to physical hazard classes

Explosive properties

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

Oxidizing properties

The product is not: oxidising.

## Other safety characteristics

Evaporation rate: not determined Solvent content: 0% Solid content: 0%

## 10. Stability and reactivity

#### Reactivity

Flammable.

#### **Chemical stability**

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

No known hazardous reactions.

## **Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

#### 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	Components							
	Exposure route	Dose		Species	Source	Method		
124-13-0	NATURAL ALDEHYD	E C-8 (OCTAI	NAL)	•	<u> </u>			
	oral	LD50 mg/kg	4617	Rat	REACH Dossier			
	dermal	LD50 mg/kg	5207	Rabbit	REACH Dossier			
5989-27-5	(R)-p-mentha-1,8-dier	ne, d-limonene	•					
	oral	LD50 mg/kg	5300	Rat	IFA GESTIS			
	dermal	LD50 mg/kg	>5000	Rabbit	REACH registration	OECD 402		
123-35-3	NATURAL MYRCENE	<u> </u>						
	oral	LD50 mg/kg	>11390	Rat	REACH registration			
	dermal	LD50 mg/kg	>5000	Rabbit	REACH registration	OECD 402		
80-56-8	NATURAL ALPHA-PII	NENE						
	oral	LD50 mg/kg	3700	Rat	GESTIS			
	dermal	LD50 mg/kg	>2000	Rat	REACH registration	OECD 402		
6728-26-3	NATURAL TRANS-2-HEXENAL							
	oral	LD50 mg/kg	780	Rat	REACH Dossier			
	dermal	LD50 mg/kg	600	Rabbit				
127-91-3	NATURAL BETA-PINENE							
	oral	LD50 mg/kg	>5000	Rat	REACH Dossier			
	dermal	LD50 mg/kg	>5000	Rabbit	REACH Dossier			
78-70-6	NATURAL LINALOOL							
	oral	LD50 mg/kg	2790	Rat	REACH registration	OECD 401		
	dermal	LD50 mg/kg	5610	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 ((R)-p-mentha-1,8-diene, d-limonene; NATURAL ALPHA-PINENE;

NATURAL TRANS-2-HEXENAL; NATURAL BETA-PINENE; NATURAL LINALOOL)

## 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.



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# 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. beta-Myrcene (CAS 123-35-3)

is listed in group 2B.

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.

#### **Further information**

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

## 12. Ecological information

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.



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CAS No	Components										
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method				
124-13-0	NATURAL ALDEHYDE C-8 (OCTANAL)										
	Acute algae toxicity	ErC50 mg/l	1,79	72 h	Pseudokirchneriella subcapitata	REACH Dossier	OECD 201				
	Acute crustacea toxicity	EC50 mg/l	1,54	48 h	Daphnia magna (Big water flea)	REACH Dossier	OECD 202				
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene										
	Acute fish toxicity	LC50 mg/l	0,72	96 h	Pimephales promelas (fathead minnow)	REACH registration	OECD 203				
	Acute algae toxicity	ErC50 mg/l	0,32	72 h	Pseudokirchneriella subcapitata	REACH registration	OECD 201				
	Acute crustacea toxicity	EC50 mg/l	0,307	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202				
	Fish toxicity	NOEC mg/l	0,37	8 d	Pimephales promelas (fathead minnow)	REACH Registration	OECD 212				
	Acute bacteria toxicity	EC50	209 mg/l	3 h	Activated sludge	REACH registration	OECD 209				
123-35-3	NATURAL MYRCENE										
	Acute fish toxicity	LC50	1,3 mg/l	96 h	Danio rerio (zebrafish)	REACH registration	OECD 203				
	Acute algae toxicity	ErC50 mg/l	0,34	72 h	Pseudokirchneriella subcapitata	REACH Registration	OECD 201				
	Acute crustacea toxicity	EC50 mg/l	1,47	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202				
80-56-8	NATURAL ALPHA-PINEN	١E									
	Acute fish toxicity	LC50 mg/l	0,27	96 h	Cyprinus carpio (Common Carp)	REACH registration	OECD 203				
	Acute crustacea toxicity	EC50 mg/l	0,475	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202				
6728-26-3	NATURAL TRANS-2-HEXENAL										
	Acute algae toxicity	ErC50 mg/l	8,16	72 h	Pseudokirchneriella subcapitata	REACH registration	QSAR Prediction				
	Acute crustacea toxicity	EC50 mg/l	22,8	48 h	Daphnia magna (Big water flea)	REACH registration	OECD Toolbox software				
127-91-3	NATURAL BETA-PINENE										
	Acute fish toxicity	LC50 mg/l	0,502	96 h	Pimephales promelas (fathead minnow)	REACH Dossier	OECD 203				
	Acute algae toxicity	ErC50 mg/l	0,826	72 h	Pseudokirchneriella subcapitata	REACH Dossier	OECD 201				
	Acute crustacea toxicity	EC50	1,2 mg/l	48 h	Daphnia magna (Big water flea)	REACH Dossier	OECD 202				
	Acute bacteria toxicity	EC50	326 mg/l		Activated sludge	REACH Dossier	OECD 209				
78-70-6	NATURAL LINALOOL										
	Acute fish toxicity	LC50 mg/l	27,8	96 h	Oncorhynchus mykiss (Rainbow trout)	REACH registration	OECD 203				
	Acute algae toxicity	ErC50 mg/l	88,3	96 h	Desmodesmus subspicatus	REACH registration	DIN 38412 L9				
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna (Big water flea)	REACH registration	OECD 202				



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# NATURAL OCTANAL 50% ENRICHED ORANGE OIL FRACTION Revision date: 07/21/2023 Product code: 279700US Page 9 of 12 Acute bacteria toxicity EC50 rmg/l ( ) O,5 h Activated sludge REACH registration OECD 209

## Persistence and degradability

The product has not been tested.

#### **Bioaccumulative potential**

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Components	Log Pow
124-13-0	NATURAL ALDEHYDE C-8 (OCTANAL)	3,5
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,5
123-35-3	NATURAL MYRCENE	4,82
80-56-8	NATURAL ALPHA-PINENE	4,83
6728-26-3	NATURAL TRANS-2-HEXENAL	1,58
127-91-3	NATURAL BETA-PINENE	4,4
78-70-6	NATURAL LINALOOL	2,97

#### **BCF**

CAS No	Components	BCF	Species	Source
124-13-0	NATURAL ALDEHYDE C-8 (OCTANAL)	94,69		REACH Registration
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	690,1	aquatic species	REACH registration
80-56-8	NATURAL ALPHA-PINENE	1248		REACH registration
127-91-3	NATURAL BETA-PINENE	838		REACH Dossier

## 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

# **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

UN number or ID number: UN 1989

Proper shipping name: ALDEHYDES, N.O.S.

Transport hazard class(es): 3
Packing group: III



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Hazard label:

3

Marine transport (IMDG)

UN number or ID number: UN 1989

**UN proper shipping name:** ALDEHYDES, N.O.S.

Transport hazard class(es):

Packing group:

Hazard label:

3



Special Provisions: 223 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

UN 1989

**UN proper shipping name:** ALDEHYDES, N.O.S.

Transport hazard class(es):3Packing group:IIIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

**Environmental hazards** 

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: NATURAL OCTANAL NATURAL D-LIMONENE

Special precautions for user

Warning: Combustible liquid.

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:



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NATURAL ALDEHYDE C-8 (OCTANAL) (124-13-0): Fire hazard, Immediate (acute) health hazard (R)-p-mentha-1,8-diene, d-limonene (5989-27-5): Fire hazard, Immediate (acute) health hazard NATURAL MYRCENE (123-35-3): Fire hazard, Immediate (acute) health hazard NATURAL ALPHA-PINENE (80-56-8): Fire hazard, Immediate (acute) health hazard NATURAL TRANS-2-HEXENAL (6728-26-3): Fire hazard, Immediate (acute) health hazard NATURAL BETA-PINENE (127-91-3): Fire hazard, Immediate (acute) health hazard NATURAL LINALOOL (78-70-6): Immediate (acute) health hazard

## **State Regulations**

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

WARNING: This product can expose you to chemicals including beta-Myrcene (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### 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.)