

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 5/16/2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Hawaiian Salt & Citrus AT 25% in DPG

Type of product : Perfumes, fragrances Product group : Trade product

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only
: Perfumes, fragrances

Use of the substance/mixture : Perfumes, frag Function or use category : Odour agents

#### 1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

No additional information available

#### 1.4. Emergency telephone number

No additional information available

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

# 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Contains : Orange oil , Hexyl cinnamic aldehyde, Linalool, Aldehyde C-16, Citral, Cyclamen aldehyde,

Geranyl acetate, Triplal (Vertocitral), Lime oil distilled

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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 ${\tt P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.}$ 

P302+P352 - IF ON SKIN: Wash with plenty of water.

 ${\sf P333+P313-If\ skin\ irritation\ or\ rash\ occurs:\ Get\ medical\ advice/attention.}$ 

P362+P364 - Take off contaminated clothing and wash it before reuse.

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-	2.875 – 5.75	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8; 600-006- 9; 616-926-9 REACH-no: 01-2119493353- 35	1.85 – 3.7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092- 50	0.8875 – 1.775	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016- 42	0.575 – 1.15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Benzyl alcohol	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630- 38	0.575 – 1.15	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Ethylene brassylate	CAS-No.: 105-95-3 EC-No.: 203-347-8 REACH-no: 01-2119976314- 33	0.55625 – 1.1125	Aquatic Chronic 2, H411
Aldehyde C-14	CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333- 34	0.5125 – 1.025	Aquatic Chronic 3, H412
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770- 28	0.2625 – 0.525	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829- 23	0.1375 – 0.275	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Cyclamen aldehyde	CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582- 32	0.0875 – 0.175	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Geranyl acetate	CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480- 35	0.0875 – 0.175	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.05625 – 0.1125	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Allyl heptanoate	CAS-No.: 142-19-8 EC-No.: 205-527-1 REACH-no: 01-2119488961- 23	0.05625 – 0.1125	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Lime oil distilled	CAS-No.: 8008-26-2 EC-No.: 290-010-3 REACH-no: 01-2120138646- 51	0.05 – 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Isoamyl acetate substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408- 32	0.0375 – 0.075	Flam. Liq. 3, H226
Diphenyl oxide substance with a Community workplace exposure limit	CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545- 33	0.0125 – 0.025	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

# 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep

container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

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# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

Benzyl alcohol (100-51-6)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	40 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	45 mg/m³	
HTP (OEL TWA) [2]	10 ppm	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA) [1]	22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Chemical category	Skin notation	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
OEL chemical category	Skin notation	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	240 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	22 mg/m³	
OEL TWA [ppm]	5 ppm	
OEL STEL	44 mg/m³	
OEL STEL [ppm]	10 ppm	
OEL chemical category	Potential for cutaneous absorption	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	22 mg/m³ (aerosol, vapour)	
MAK (OEL TWA) [2]	5 ppm (aerosol, vapour)	
OEL chemical category	Skin notation	
Citral (5392-40-5)		
Belgium - Occupational Exposure Limits		
OEL TWA	32 mg/m³ (vapor and aerosol)	

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Citral (5392-40-5)		
OEL TWA [ppm]	5 ppm (vapor and aerosol)	
OEL chemical category	Skin	
Ireland - Occupational Exposure Limits		
OEL TWA [2]	5 ppm	
OEL STEL [ppm]	15 ppm (calculated)	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	27 mg/m³	
NDSCh (OEL STEL)	54 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA [ppm]	5 ppm	
OEL chemical category	Sensitizer, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [2]	5 ppm (inhalable fraction and vapor)	
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer	
Isoamyl acetate (123-92-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	270 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	540 mg/m³	
IOEL STEL [ppm]	100 ppm	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	270 mg/m³ (Pentyl acetate (all isomers))	
MAK (OEL TWA) [ppm]	50 ppm (Pentyl acetate (all isomers))	
MAK (OEL STEL)	540 mg/m³ (Pentylacetate)	
MAK (OEL STEL) [ppm]	100 ppm (Pentylacetate)	
Belgium - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	

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Isoamyl acetate (123-92-2)		
OEL STEL [ppm]	100 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	270 mg/m³	
GVI (OEL TWA) [2]	50 ppm	
KGVI (OEL STEL)	540 mg/m³	
KGVI (OEL STEL) [ppm]	100 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	271 mg/m³ (Amyl acetate, all isomers)	
OEL TWA [2]	50 ppm (Amyl acetate, all isomers)	
Estonia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	270 mg/m³ (Pentyl acetate)	
HTP (OEL TWA) [2]	50 ppm (Pentyl acetate)	
HTP (OEL STEL)	540 mg/m³	
HTP (OEL STEL) [ppm]	100 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	270 mg/m³ (restrictive limit)	
VME (OEL TWA) [ppm]	50 ppm (restrictive limit)	
VLE (OEL C/STEL)	540 mg/m³ (restrictive limit)	
VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)	
Germany - Occupational Exposure Limits (TRGS 900)		
AGW (OEL TWA) [1]	270 mg/m³	
AGW (OEL TWA) [2]	50 ppm	
Gibraltar - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Greece - Occupational Exposure Limits		
OEL TWA	530 mg/m³	

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Isoamyl acetate (123-92-2)		
OEL TWA [ppm]	100 ppm	
OEL STEL	800 mg/m³	
OEL STEL [ppm]	150 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	270 mg/m³	
CK (OEL STEL)	540 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	260 mg/m³	
OEL TWA [2]	50 ppm	
OEL STEL	520 mg/m³	
OEL STEL [ppm]	100 ppm	
Italy - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	270 mg/m³	
IPRV (OEL TWA) [ppm]	50 ppm	
TPRV (OEL STEL)	540 mg/m³	
TPRV (OEL STEL) [ppm]	100 ppm	
Luxembourg - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Malta - Occupational Exposure Limits		
OEL TWA	270 mg/m <sup>3</sup>	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Netherlands - Occupational Exposure Limits		
TGG-15min (OEL STEL)	530 mg/m³	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	250 mg/m³	
NDSCh (OEL STEL)	500 mg/m³	

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Isoamyl acetate (123-92-2)		
Portugal - Occupational Exposure Limits		
OEL TWA	270 mg/m³ (indicative limit value)	
OEL TWA [ppm]	50 ppm (indicative limit value)	
OEL STEL	540 mg/m³ (indicative limit value)	
OEL STEL [ppm]	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)	
Romania - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	270 mg/m³	
NPHV (OEL TWA) [2]	50 ppm	
NPHV (OEL C)	540 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	540 mg/m³	
OEL STEL [ppm]	100 ppm	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	270 mg/m³ (indicative limit value)	
VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)	
VLA-EC (OEL STEL)	540 mg/m³	
VLA-EC (OEL STEL) [ppm]	100 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	270 mg/m³ (Pentyl acetates)	
NGV (OEL TWA) [ppm]	50 ppm (Pentyl acetates)	
KTV (OEL STEL)	540 mg/m³ (Pentyl acetates)	
KTV (OEL STEL) [ppm]	100 ppm (Pentyl acetates)	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	260 mg/m³	
Grenseverdi (OEL TWA) [2]	50 ppm	
Korttidsverdi (OEL STEL)	325 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	75 ppm (value calculated)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 ppm (Pentyl acetate, all isomers)	
ACGIH OEL STEL [ppm]	100 ppm (Pentyl acetate, all isomers)	

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Diphenyl oxide (101-84-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	7 mg/m³	
IOEL TWA [ppm]	1 ppm	
IOEL STEL	14 mg/m³	
IOEL STEL [ppm]	2 ppm	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	7 mg/m³	
MAK (OEL TWA) [ppm]	1 ppm	
MAK (OEL STEL)	14 mg/m³	
MAK (OEL STEL) [ppm]	2 ppm	
Belgium - Occupational Exposure Limits		
OEL TWA	7 mg/m³ (vapor)	
OEL TWA [ppm]	1 ppm (vapor)	
OEL STEL	14 mg/m³ (vapor)	
OEL STEL [ppm]	2 ppm (vapor)	
Bulgaria - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	
OEL STEL [ppm]	2 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	7 mg/m³	
GVI (OEL TWA) [2]	1 ppm	
KGVI (OEL STEL)	14 mg/m³	
KGVI (OEL STEL) [ppm]	2 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	
OEL STEL [ppm]	2 ppm	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	5 mg/m³	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	7 mg/m³	
OEL TWA [2]	1 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	

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Diphenyl oxide (101-84-8)		
OEL STEL [ppm]	2 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	7 mg/m³	
HTP (OEL TWA) [2]	1 ppm	
HTP (OEL STEL)	14 mg/m³	
HTP (OEL STEL) [ppm]	2 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	7 mg/m³	
VME (OEL TWA) [ppm]	1 ppm	
OEL chemical category	Risk of cutaneous absorption	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	7.1 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)	
AGW (OEL TWA) [2]	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)	
Gibraltar - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	
OEL STEL [ppm]	200 ppm	
Greece - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	
OEL STEL [ppm]	2 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	7 mg/m³	
CK (OEL STEL)	14 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	7 mg/m³ (vapour)	
OEL TWA [2]	1 ppm (vapour)	
OEL STEL	14 mg/m³ (vapour)	
OEL STEL [ppm]	2 ppm (vapour)	
Italy - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	

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Diphenyl oxide (101-84-8)		
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	7 mg/m³	
IPRV (OEL TWA) [ppm]	1 ppm	
TPRV (OEL STEL)	14 mg/m³	
TPRV (OEL STEL) [ppm]	2 ppm	
Luxembourg - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	
OEL STEL [ppm]	2 ppm	
Malta - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	
OEL STEL [ppm]	2 ppm	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	7 mg/m³	
TGG-15min (OEL STEL)	14 mg/m³	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	7 mg/m³	
NDSCh (OEL STEL)	14 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm (vapor)	
OEL STEL	14 mg/m³ (indicative limit value)	
OEL STEL [ppm]	2 ppm (indicative limit value-vapor)	
Romania - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
OEL TWA [ppm]	0.7 ppm	
OEL STEL	10 mg/m³	
OEL STEL [ppm]	1.4 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	7 mg/m³	
NPHV (OEL TWA) [2]	1 ppm	
NPHV (OEL C)	7.1 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	7 mg/m³	
OEL TWA [ppm]	1 ppm	
OEL STEL	14 mg/m³	

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Diphenyl oxide (101-84-8)			
OEL STEL [ppm]	2 ppm		
Spain - Occupational Exposure Limits	Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	7.1 mg/m³ (vapor)		
VLA-ED (OEL TWA) [2]	1 ppm (vapor)		
VLA-EC (OEL STEL)	14.2 mg/m³ (vapor)		
VLA-EC (OEL STEL) [ppm]	2 ppm (vapor)		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	7 mg/m³		
NGV (OEL TWA) [ppm]	1 ppm		
KTV (OEL STEL)	14 mg/m³		
KTV (OEL STEL) [ppm]	2 ppm		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	7.1 mg/m³ (vapour)		
WEL TWA (OEL TWA) [2]	1 ppm (vapour)		
WEL STEL (OEL STEL)	21.3 mg/m³ (calculated-vapour)		
WEL STEL (OEL STEL) [ppm]	3 ppm (calculated-vapour)		
Norway - Occupational Exposure Limits			
Grenseverdi (OEL TWA) [1]	7 mg/m³		
Grenseverdi (OEL TWA) [2]	1 ppm		
Korttidsverdi (OEL STEL)	14 mg/m³ (value from the regulation)		
Korttidsverdi (OEL STEL) [ppm]	2 ppm (value from the regulation)		
Switzerland - Occupational Exposure Limits			
MAK (OEL TWA) [1]	7 mg/m³ (aerosol, vapour)		
MAK (OEL TWA) [2]	1 ppm (aerosol, vapour)		
KZGW (OEL STEL)	14 mg/m³ (aerosol, vapour)		
KZGW (OEL STEL) [ppm]	2 ppm (aerosol, vapour)		
OEL chemical category	Category 2 developmental toxin, Category 2 reproductive toxin		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	1 ppm (vapor)		
ACGIH OEL STEL [ppm]	2 ppm (vapor fraction)		

# 8.1.2. Recommended monitoring procedures

No additional information available

# 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

# 8.1.5. Control banding

No additional information available

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#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

#### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Other information:

Physical state

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

: Liquid

Colour Standard. Odour characteristic. Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available Freezing point : No data available : No data available Boiling point : > 93 °C

Flash point

Auto-ignition temperature : No data available Decomposition temperature : No data available : Non flammable. Flammability (solid, gas) : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

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## 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Not established.

# 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

# 10.5. Incompatible materials

Strong acids. Strong bases.

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Benzyl benzoate (120-51-4)		
LD50 oral rat	500 mg/kg	
LD50 oral	1500 mg/kg bodyweight	
LD50 dermal rabbit	4000 mg/kg	
LD50 dermal	4000 mg/kg bodyweight	
Orange oil (8008-57-9)		
LD50 oral rat	4400 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Hexyl cinnamic aldehyde (101-86-0)		
LD50 oral rat	3100 mg/kg	
LD50 oral	3100 mg/kg bodyweight	
LD50 dermal rabbit	> 3000 mg/kg	
LC50 Inhalation - Rat	> 5 mg/l/4h	
Linalool (78-70-6)		
LD50 oral	2790 mg/kg bodyweight	

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Benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg
LD50 oral	1620 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight
Ethylene brassylate (105-95-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Aldehyde C-14 (104-67-6)	
LD50 oral rat	18500 mg/kg
LD50 dermal rat	> 2000 mg/kg
Aldehyde C-16 (77-83-8)	
LD50 oral rat	5470 mg/kg
LD50 dermal rat	> 2000 mg/kg
Citral (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
LD50 dermal	2250 mg/kg bodyweight
Cyclamen aldehyde (103-95-7)	
LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg
Geranyl acetate (105-87-3)	
LD50 oral rat	6330 mg/kg
Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg bodyweight
Allyl heptanoate (142-19-8)	
LD50 oral rat	500 mg/kg
LD50 oral	218 mg/kg bodyweight
LD50 dermal rabbit	810 mg/kg
LD50 dermal	810 mg/kg bodyweight
Lime oil distilled (8008-26-2)	
LD50 oral rat	5600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Diphenyl oxide (101-84-8)	
LD50 oral rat	2450 mg/kg
LD50 oral	2830 mg/kg bodyweight
LD50 dermal rabbit	> 7940 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h

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Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met : Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: Harmful to aquatic life with long lasting effects.

Benzy	yl benzoate	(120-51-4
DCITE	y i belizeate	(120 01 7

LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC (chronic)	0.168 mg/l

#### Linalool (78-70-6)

EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
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# Benzyl alcohol (100-51-6)

LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

#### EC50 - Crustacea [1] 23 mg/l (Exposure time: 48 h - Species: water flea)

## Aldehyde C-14 (104-67-6)

LC50 - Fish [1]	569 mg/l 96 h
EC50 - Crustacea [1]	5.85 mg/l 48 h
EC50 - Other aquatic organisms [1]	5.94 mg/l 72 h

### Aldehyde C-16 (77-83-8)

LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Opcorhypchus mykiss [semi-static])

#### Citral (5392-40-5)

EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)

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# 12.2. Persistence and degradability

Hawaiian Salt & Citrus AT 25% in DPG	
Persistence and degradability	Not established.
Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

# 12.3. Bioaccumulative potential

lawaiian Salt & Citrus AT 25% in DPG	
Bioaccumulative potential	Not established.
Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	4
Bioaccumulative potential	Not established.
Benzyl alcohol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1.1
Citral (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
Diphenyl oxide (101-84-8)	
BCF - Fish [1]	470
Partition coefficient n-octanol/water (Log Pow)	4.2

# 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

Additional information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

# 14.1 UN number

UN-No. (ADR) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable UN-No. (ADN) : Not applicable UN-No. (RID) : Not applicable

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## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

## 14.3. Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

**RID** 

Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

## 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

# 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

## Inland waterway transport

Not applicable

#### Rail transport

Not applicable

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Orange oil ; Lime oil distilled ; Isoamyl acetate
3(b)	Hawaiian Salt & Citrus AT 25% in DPG; Benzyl benzoate; Orange oil; Hexyl cinnamic aldehyde; Linalool; Benzyl alcohol; Aldehyde C-16; Citral; Cyclamen aldehyde; Geranyl acetate; Triplal (Vertocitral); Allyl heptanoate; Lime oil distilled
3(c)	Hawaiian Salt & Citrus AT 25% in DPG; Benzyl benzoate; Orange oil; Hexyl cinnamic aldehyde; Ethylene brassylate; Aldehyde C-14; Aldehyde C-16; Cyclamen aldehyde; Geranyl acetate; Triplal (Vertocitral); Allyl heptanoate; Lime oil distilled
40.	Orange oil ; Lime oil distilled ; Isoamyl acetate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

## 15.1.2. National regulations

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
	Observe restrictions according Act on the Protection of Young People in Employment
	(JArbSchG)

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Orange oil ,Triplal (Vertocitral) are listed SZW-lijst van mutagene stoffen : Orange oil ,Triplal (Vertocitral) are listed SZW-lijst van reprotoxische stoffen - Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen -: None of the components are listed Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed **Danish National Regulations** : Young people below the age of 18 years are not allowed to use the product

: None of the components are listed

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**Switzerland** 

: LK 10/12 - Liquids Storage class (LK)

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## **SECTION 16: Other information**

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.