



# Pineapple Mango #TCDL-CFRA-BOWL-NPNA

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10/17/2014 Revision date: 8/22/2019 Supersedes: 7/9/2018 Version: 2.0

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

#### 1.1. Product identifier

Product form	: Mixture
Product name	: Pineapple Mango #TCDL-CFRA-BOWL-NPNA
UFI	: MUJE-E1XR-C00N-GG29
Product code	: TCDL-CFRA-BOWL-NPNA
Type of product	: Perfumes, fragrances
Product group	: Finished Good

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

##### 1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: For professional use only Industrial
Use of the substance/mixture	: Perfumes, fragrances
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

The Cosy Owl  
20-28 Albert Road,  
Braintree,  
Essex CM7 3JQ  
: +44 1376 560 348  
[enquiries@cosyowl.com](mailto:enquiries@cosyowl.com) – [www.cosyowl.com](http://www.cosyowl.com)  
Company registration number: 07738645

#### 1.4. Emergency telephone number

Emergency number: +44 1376 560 348

### SECTION 2: Hazards identification

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

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

Acute toxicity (oral), Category 4	H302
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H statements : see section 16	

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

Harmful if swallowed. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

Hazardous ingredients

: Cyclamal; Allyl heptanoate; Triplal (Vertocitral); Linalool; Hexyl cinnamic aldehyde; Allyl cyclohexylpropionate

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Hazard statements (CLP)	: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, face protection, eye protection.

### 2.3. Other hazards

No additional information available

## 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]
Verdox	(CAS-No.) 88-41-5 (EC-No.) 201-828-7 (REACH-no) 01-2119970713-33	4 – 7	Aquatic Chronic 2, H411
Allyl cyclohexylpropionate	(CAS-No.) 2705-87-5 (EC-No.) 220-292-5	4 – 7	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexamethylindanopyran	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7 (REACH-no) 01-2119488227-29	2.625 – 5.25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3 (REACH-no) 01-2119533092-50	2.45 – 4.9	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Allyl heptanoate	(CAS-No.) 142-19-8 (EC-No.) 205-527-1 (REACH-no) 01-2119488961-23	2.2 – 4.4	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Ethylene brassylate	(CAS-No.) 105-95-3 (EC-No.) 203-347-8 (REACH-no) 01-2119967772-24	1.4 – 2.8	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	1.0004 – 2.0007	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Aldehyde C-14	(CAS-No.) 104-67-6 (EC-No.) 203-225-4 (REACH-no) 01-2119959333-34	0.85 – 1.7	Aquatic Chronic 3, H412
Diethyl malonate	(CAS-No.) 105-53-3 (EC-No.) 203-305-9 (REACH-no) 01-2119886972-18	0.75 – 1.5	Eye Irrit. 2, H319

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d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	0.6778 – 1.3706	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Verdyl acetate	(CAS-No.) 5413-60-5 (EC-No.) 226-501-6	0.5 – 1	Aquatic Chronic 3, H412
Cyclamal	(CAS-No.) 103-95-7 (EC-No.) 203-161-7 (REACH-no) 01-2119970582-32	0.175 – 0.35	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.175 – 0.35	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Allyl caproate	(CAS-No.) 123-68-2 (EC-No.) 204-642-4 (REACH-no) 01-2119983573-26	0.14 – 0.28	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
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	0.105 – 0.21	Flam. Liq. 3, H226

Full text of H-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). Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash contaminated clothing before reuse. Wash with plenty of water/.... Get medical advice/attention. Specific treatment (see Call a physician immediately on this label). Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get immediate medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Combustible liquid.  
Explosion hazard : May form flammable/explosive vapour-air mixture.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 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. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. 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

- For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat, sparks and flame. No smoking.  
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. 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. No open flames. No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

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Hygiene measures : Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Keep in fireproof place. Store in a well-ventilated place. Keep cool.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.  
Storage temperature : 25 °C  
Storage area : Store in a well-ventilated place. Store away from heat.  
Special rules on packaging : Store in a closed container.  
Packaging materials : Do not store in corrodable metal.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Isoamyl acetate (123-92-2)</b>	
<b>EU - Occupational Exposure Limits</b>	
IOELV TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
IOELV STEL (ppm)	100 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (Pentyl acetate (all isomers))
MAK (ppm)	50 ppm (Pentyl acetate (all isomers))
MAK Short time value (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup> (Pentylacetate)
MAK Short time value (ppm)	100 ppm (Pentylacetate)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Limit value (ppm)	50 ppm
Short time value (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
Short time value (ppm)	100 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
GVI (granična vrijednost izloženosti) (ppm)	50 ppm

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<b>Isoamyl acetate (123-92-2)</b>	
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Denmark - Occupational Exposure Limits</b>	
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	271 mg/m <sup>3</sup> (Amyl acetate, all isomers)
Grænseværdie (langvarig) (ppm)	50 ppm (Amyl acetate, all isomers)
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (Pentyl acetate)
HTP-arvo (8h) (ppm)	50 ppm (Pentyl acetate)
HTP-arvo (15 min)	540 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	100 ppm
<b>France - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (restrictive limit)
VME (ppm)	50 ppm (restrictive limit)
VLE (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup> (restrictive limit)
VLE (ppm)	100 ppm (restrictive limit)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Occupational exposure limit value (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	50 ppm
<b>Gibraltar - Occupational Exposure Limits</b>	
Eight hours mg/m <sup>3</sup>	270 mg/m <sup>3</sup>
Eight hours ppm	50 ppm
Short-term mg/m <sup>3</sup>	540 mg/m <sup>3</sup>
Short-term ppm	100 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	530 mg/m <sup>3</sup>
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
OEL STEL (ppm)	150 ppm

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<b>Isoamyl acetate (123-92-2)</b>	
<b>Hungary - Occupational Exposure Limits</b>	
AK-érték	270 mg/m <sup>3</sup>
CK-érték	540 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	520 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
IPRV (ppm)	50 ppm
TPRV (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
TPRV (ppm)	100 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	530 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
NDSch (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (indicative limit value)
OEL TWA (ppm)	50 ppm (indicative limit value)
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup> (indicative limit value)

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<b>Isoamyl acetate (123-92-2)</b>	
OEL STEL (ppm)	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (priemerná) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	50 ppm
NPHV (Hraničná) (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (indicative limit value)
VLA-ED (ppm)	50 ppm (indicative limit value)
VLA-EC (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
VLA-EC (ppm)	100 ppm
<b>Sweden - Occupational Exposure Limits</b>	
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (Pentyl acetates)
nivågränsvärde (NVG) (ppm)	50 ppm (Pentyl acetates)
kortidsvärde (KTV) (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup> (Pentyl acetates)
kortidsvärde (KTV) (ppm)	100 ppm (Pentyl acetates)
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdier (AN) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	50 ppm
Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	325 mg/m <sup>3</sup> (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	75 ppm (value calculated)
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (ppm)	50 ppm (Pentyl acetate, all isomers)
ACGIH STEL (ppm)	100 ppm (Pentyl acetate, all isomers)



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#### Finland - Occupational Exposure Limits

HTP-arvo (8h) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	50 ppm

#### Germany - Occupational Exposure Limits (TRGS 900)

Occupational exposure limit value (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	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, Skin sensitization

#### Slovenia - Occupational Exposure Limits

OEL TWA (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m <sup>3</sup> )	112 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
OEL chemical category (SI)	Potential for cutaneous absorption

#### Spain - Occupational Exposure Limits

VLA-ED (mg/m <sup>3</sup> )	168 mg/m <sup>3</sup>
VLA-ED (ppm)	30 ppm
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption

#### Norway - Occupational Exposure Limits

Grenseverdier (AN) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	175 mg/m <sup>3</sup> (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	37.5 ppm (value calculated)
OEL chemical category (NO)	Sensitizing substance

#### Switzerland - Occupational Exposure Limits

MAK (mg/m <sup>3</sup> )	40 mg/m <sup>3</sup>
MAK (ppm)	7 ppm
KZGW (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
KZGW (ppm)	14 ppm
OEL chemical category (CH)	Sensitizer

## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protective equipment:

Avoid all unnecessary exposure.

### Hand protection:

Wear protective gloves.

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### Eye protection:

Chemical goggles or safety glasses. Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow . amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 91 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 0.95
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

Minimum ignition energy : <

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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### 10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapour-air mixture. Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Pineapple Mango #TCDL-CFRA-BOWL-NPNA

ATE CLP (oral)	1701.67 mg/kg bodyweight
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#### Allyl caproate (123-68-2)

LD50 oral	300 mg/kg bodyweight
LD50 dermal	300 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	3 mg/l/4h

#### Cyclamal (103-95-7)

LD50 oral rat	3810 mg/kg
LD50 oral	3810 mg/kg bodyweight

#### Triplal (Vertocitral) (68039-49-6)

LD50 oral	3900 mg/kg bodyweight
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#### Verdyl acetate (5413-60-5)

LD50 oral	3050 mg/kg bodyweight
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#### Diethyl malonate (105-53-3)

LD50 oral rat	14900 µl/kg
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#### Aldehyde C-14 (104-67-6)

LD50 oral rat	18500 mg/kg
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#### Linalool (78-70-6)

LD50 oral rat	2790 mg/kg
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LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	2000 mg/kg

### Ethylene brassylate (105-95-3)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

### Allyl heptanoate (142-19-8)

LD50 oral rat	500 mg/kg
LD50 oral	218 mg/kg bodyweight
LD50 dermal	810 mg/kg bodyweight

### 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 (mg/l)	> 5 mg/l/4h

### Hexamethylindanopyran (1222-05-5)

LD50 oral rat	> 3250 mg/kg
LD50 dermal rabbit	> 3250 mg/kg

### Verdox (88-41-5)

LD50 oral rat	4600 mg/kg
LD50 oral	4600 mg/kg bodyweight

### Allyl cyclohexylpropionate (2705-87-5)

LD50 oral rat	585 mg/kg
LD50 oral	480 mg/kg bodyweight
LD50 dermal	1600 mg/kg bodyweight
LC50 inhalation rat (Vapours - mg/l/4h)	11 mg/l/4h

### d-Limonene (5989-27-5)

LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg

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.
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

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### d-Limonene (5989-27-5)

IARC group	3 - Not classifiable
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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

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Ecology - water : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### Allyl caproate (123-68-2)

LC50 fish 1	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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### Diethyl malonate (105-53-3)

LC50 fish 1	10.3 – 13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	202.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h algae (1)	508.2 mg/l (Species: Desmodesmus subspicatus)

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

LC50 fish 1	569 mg/l 96 h
EC50 Daphnia 1	5.85 mg/l 48 h
EC50 other aquatic organisms 1	5.94 mg/l 72 h

### Linalool (78-70-6)

LC50 fish 1	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h algae (1)	88.3 mg/l (Species: Desmodesmus subspicatus)

### Hexamethylindanopyran (1222-05-5)

LC50 fish 1	0.452 mg/l Wolf, 1996d-27682
LC50 other aquatic organisms 1	> 0.14 mg/l REACH DOSSIER Pimephales promelas
EC50 Daphnia 2	260 µg/l REACH Dossier

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EC50 other aquatic organisms 1	0.131 mg/l REACH Dossier
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### Allyl cyclohexylpropionate (2705-87-5)

LC50 fish 1	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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### d-Limonene (5989-27-5)

LC50 fish 1	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

## 12.2. Persistence and degradability

### Pineapple Mango #TCDL-CFRA-BOWL-NPNA

Persistence and degradability	May cause long-term adverse effects in the environment.
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## 12.3. Bioaccumulative potential

### Pineapple Mango #TCDL-CFRA-BOWL-NPNA

Bioaccumulative potential	Not established.
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### Diethyl malonate (105-53-3)

Partition coefficient n-octanol/water (Log Pow)	0.96
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### Linalool (78-70-6)

Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)
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## 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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : UN 3082  
UN-No. (IMDG) : UN 3082  
UN-No. (IATA) : UN 3082

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UN-No. (ADN) : UN 3082  
UN-No. (RID) : UN 3082

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.  
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl cyclohexylpropionate), 9, III, (E)  
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allyl cyclohexylpropionate), 9, III, MARINE POLLUTANT  
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Allyl cyclohexylpropionate), 9, III  
Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III  
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 9  
Danger labels (ADR) : 9



#### IMDG

Transport hazard class(es) (IMDG) : 9  
Danger labels (IMDG) : 9



#### IATA

Transport hazard class(es) (IATA) : 9  
Danger labels (IATA) : 9



#### ADN

Transport hazard class(es) (ADN) : 9  
Danger labels (ADN) : 9



#### RID

Transport hazard class(es) (RID) : 9  
Danger labels (RID) : 9

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### 14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

### 14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13

Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: •3Z

#### Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

#### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964



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CAO max net quantity (IATA) : 450L  
Special provisions (IATA) : A97, A158, A197  
ERG code (IATA) : 9L

### Inland waterway transport

Classification code (ADN) : M6  
Special provisions (ADN) : 274, 335, 375, 601  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M6  
Special provisions (RID) : 274, 335, 375, 601  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP29

Tank codes for RID tanks (RID) : LGBV  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31

Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 90

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on
3(a)	Isoamyl acetate ; d-Limonene
3(b)	Pineapple Mango #TCDL-CFRA-BOWL-NPNA ; Allyl caproate ; Cyclamal ; Allyl heptanoate ; Diethyl malonate ; Triplal (Vertocitral) ; Linalool ; Hexyl cinnamic aldehyde ; Allyl cyclohexylpropionate ; d-Limonene
3(c)	Pineapple Mango #TCDL-CFRA-BOWL-NPNA ; Allyl caproate ; Cyclamal ; Aldehyde C-14 ; Ethylene brassylate ; Allyl heptanoate ; Verdyl acetate ; Triplal (Vertocitral) ; Hexyl cinnamic aldehyde ; Verdox ; Allyl cyclohexylpropionate ; Hexamethylindanopyran ; d-Limonene
40.	Isoamyl acetate ; d-Limonene

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

#### 15.1.2. National regulations

##### Germany

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)

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Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : Triplal (Vertocitral) is listed  
SZW-lijst van mutagene stoffen : Triplal (Vertocitral) is listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

### Denmark

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; 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  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 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.

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

Acute Tox. 4 (Oral)	H302
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### 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 (Dermal)	Acute toxicity (dermal), Category 4
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
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
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.
H312	Harmful 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.
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.

SDS EU (REACH Annex II)

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.