



French Pear #TCDL-CFRA-BOWL-NPRR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 10/2/2019 Revision date: 10/2/2019 Supersedes: 1/9/2018 Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Product name : French Pear #TCDL-CFRA-BOWL-NPRR
UFI : WR9P-D0RH-V004-N7RE
Product code : TCDL-CFRA-BOWL-NPRR
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
Tel: +44 1376 560 348
enquiries@cosyowl.com – 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]

Skin corrosion/irritation H315
Category 2
Serious eye damage/eye H319
irritation Category 2
Skin sensitization, Category H317
1
Hazardous to the aquatic H411
environment - Chronic
Hazard Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Warning
Hazardous ingredients : Coumarin crystals; Neryl acetate; d-Limonene; Eugenol; Geranyl acetate; Cinnamic aldehyde;

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	Triplal (Vertocitral)
Hazard statements (CLP)	: H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	: P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, face protection, face shield, protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water.

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]
Verdorex	(CAS-No.) 88-41-5 (EC-No.) 201-828-7 (REACH-no) 01-2119970713-33	3.65 - 7.3	Aquatic Chronic 2, H411
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5	3.3 - 6.6	Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Skin Sens. 1, H317
Eugenol	(CAS-No.) 97-53-0 (EC-No.) 202-589-1	2.75 - 5.5	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Cinnamic aldehyde	(CAS-No.) 104-55-2 (EC-No.) 203-213-9	2.75 - 5.5	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Neryl acetate	(CAS-No.) 141-12-8 (EC-No.) 205-459-2	1.45 - 2.9	Skin Irrit. 2, H315 Skin Sens. 1B, H317
Citronellyl acetate (mixed isomers)	(CAS-No.) 150-84-5 (EC-No.) 205-775-0	1.2 - 2.4	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	0.9 - 1.8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
Veltol plus crystals	(CAS-No.) 4940-11-8 (EC-No.) 225-582-5	0.83 - 1.66	Acute Tox. 4 (Oral), H302
Ethylene brassylate	(CAS-No.) 105-95-3 (EC-No.) 203-347-8 (REACH-no) 01-2119967772-24	0.65 - 1.3	Aquatic Chronic 2, H411
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	0.2 - 0.4	Flam. Liq. 3, H226
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.2 - 0.4	Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Diphenyl oxide	(CAS-No.) 101-84-8 (EC-No.) 202-981-2 (REACH-no) 01-2119472545-33	0.15 - 0.3	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Coumarin crystals	(CAS-No.) 91-64-5 (EC-No.) 202-086-7 (REACH-no) 01-2119943756-26	0.1 - 0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Allergen report available upon request.

Full text of H-phrases: see section 16

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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	: 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	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Call a physician immediately on this label). Wash contaminated clothing before reuse. 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	: If eye irritation persists: Get immediate medical advice/attention. Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

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.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Eye irritation.

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

Treat symptomatically.

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 vapor-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 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.
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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/vapors/spray.
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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.

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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 vapors are flammable. Keep away from heat, sparks and flame. - No smoking.

Precautions for safe handling : Ensure good ventilation of the work station. 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 vapor. No open flames. No smoking. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse. 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.

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

Diphenyl oxide (101-84-8)		
EU	IOELV TWA (mg/m ³)	7 mg/m ³
EU	IOELV TWA (ppm)	1 ppm
EU	IOELV STEL (mg/m ³)	14 mg/m ³
EU	IOELV STEL (ppm)	2 ppm
Austria	MAK (mg/m ³)	7 mg/m ³
Austria	MAK (ppm)	1 ppm
Austria	MAK Short time value (mg/m ³)	14 mg/m ³
Austria	MAK Short time value (ppm)	2 ppm
Belgium	Limit value (mg/m ³)	7 mg/m ³ (vapor)
Belgium	Limit value (ppm)	1 ppm (vapor)
Belgium	Short time value (mg/m ³)	14 mg/m ³ (vapor)
Belgium	Short time value (ppm)	2 ppm (vapor)
Bulgaria	OEL TWA (mg/m ³)	7 mg/m ³
Bulgaria	OEL TWA (ppm)	1 ppm
Bulgaria	OEL STEL (mg/m ³)	14 mg/m ³
Bulgaria	OEL STEL (ppm)	2 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	7 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	1 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	14 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	2 ppm
Cyprus	OEL TWA (mg/m ³)	7 mg/m ³
Cyprus	OEL TWA (ppm)	1 ppm
Cyprus	OEL STEL (mg/m ³)	14 mg/m ³
Cyprus	OEL STEL (ppm)	2 ppm
Czech Republic	Exposure limits (PEL) (mg/m ³)	5 mg/m ³

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Diphenyl oxide (101-84-8)		
Denmark	Limit (long-term) (mg/m ³)	7 mg/m ³
Denmark	Limit (long-term) (ppm)	1 ppm
Estonia	OEL TWA (mg/m ³)	7 mg/m ³
Estonia	OEL TWA (ppm)	1 ppm
Estonia	OEL STEL (mg/m ³)	14 mg/m ³
Estonia	OEL STEL (ppm)	2 ppm
Finland	HTP-arvo (8h) (mg/m ³)	7 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm
Finland	HTP-arvo (15 min)	14 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	2 ppm
France	VME (mg/m ³)	7 mg/m ³
France	VME (ppm)	1 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	7.1 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Germany	TRGS 900 Occupational exposure limit value (ppm)	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Gibraltar	Eight hours mg/m ³	7 mg/m ³
Gibraltar	Eight hours ppm	1 ppm
Gibraltar	Short-term mg/m ³	14 mg/m ³
Gibraltar	Short-term ppm	200 ppm
Greece	OEL TWA (mg/m ³)	7 mg/m ³
Greece	OEL TWA (ppm)	1 ppm
Greece	OEL STEL (mg/m ³)	14 mg/m ³
Greece	OEL STEL (ppm)	2 ppm
Hungary	Exposure Limit Value	7 mg/m ³
Hungary	CK-érték	14 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	7 mg/m ³ (vapour)
Ireland	OEL (8 hours ref) (ppm)	1 ppm (vapour)
Ireland	OEL (15 min ref) (mg/m ³)	14 mg/m ³ (vapour)
Ireland	OEL (15 min ref) (ppm)	2 ppm (vapour)
Latvia	OEL TWA (mg/m ³)	7 mg/m ³
Latvia	OEL TWA (ppm)	1 ppm
Lithuania	IPRV (mg/m ³)	7 mg/m ³
Lithuania	IPRV (ppm)	1 ppm
Lithuania	TPRV (mg/m ³)	14 mg/m ³
Lithuania	TPRV (ppm)	2 ppm
Luxembourg	OEL TWA (mg/m ³)	7 mg/m ³
Luxembourg	OEL TWA (ppm)	1 ppm
Luxembourg	OEL STEL (mg/m ³)	14 mg/m ³
Luxembourg	OEL STEL (ppm)	2 ppm
Malta	OEL TWA (mg/m ³)	7 mg/m ³
Malta	OEL TWA (ppm)	1 ppm
Malta	OEL STEL (mg/m ³)	14 mg/m ³
Malta	OEL STEL (ppm)	2 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	7 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	14 mg/m ³
Poland	NDS (mg/m ³)	7 mg/m ³
Poland	NDSch (mg/m ³)	14 mg/m ³
Portugal	OEL TWA (ppm)	1 ppm (vapor)
Portugal	OEL STEL (ppm)	2 ppm (vapor)

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Diphenyl oxide (101-84-8)		
Romania	OEL TWA (mg/m ³)	5 mg/m ³
Romania	OEL TWA (ppm)	0.7 ppm
Romania	OEL STEL (mg/m ³)	10 mg/m ³
Romania	OEL STEL (ppm)	1.4 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	7 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	1 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	7.1 mg/m ³
Slovenia	OEL TWA (mg/m ³)	7 mg/m ³
Slovenia	OEL TWA (ppm)	1 ppm
Slovenia	OEL STEL (mg/m ³)	14 mg/m ³
Slovenia	OEL STEL (ppm)	2 ppm
Spain	VLA-ED (mg/m ³)	7.1 mg/m ³ (vapor)
Spain	VLA-ED (ppm)	1 ppm (vapor)
Spain	VLA-EC (mg/m ³)	14.2 mg/m ³ (vapor)
Spain	VLA-EC (ppm)	2 ppm (vapor)
Sweden	nivågränsvärde (NVG) (mg/m ³)	7 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	1 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	14 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	2 ppm
United Kingdom	WEL TWA (mg/m ³)	7.1 mg/m ³ (vapour)
United Kingdom	WEL TWA (ppm)	1 ppm (vapour)
United Kingdom	WEL STEL (mg/m ³)	21.3 mg/m ³ (calculated-vapour)
United Kingdom	WEL STEL (ppm)	3 ppm (calculated-vapour)
Norway	TWA (AN) (mg/m ³)	7 mg/m ³
Norway	TWA (AN) (ppm)	1 ppm
Norway	TWA (Korttidsverdi) (mg/m ³)	14 mg/m ³ (value calculated)
Norway	TWA (Korttidsverdi) (ppm)	2 ppm (value calculated)
Switzerland	MAK (mg/m ³)	7 mg/m ³ (aerosol, vapour)
Switzerland	MAK (ppm)	1 ppm (aerosol, vapour)
Switzerland	KZGW (mg/m ³)	7 mg/m ³ (aerosol, vapour)
Switzerland	KZGW (ppm)	1 ppm (aerosol, vapour)
Australia	TWA (mg/m ³)	7 mg/m ³ (vapour)
Australia	TWA (ppm)	1 ppm (vapour)
Australia	STEL (mg/m ³)	14 mg/m ³ (vapour)
Australia	STEL (ppm)	2 ppm (vapour)
Canada (Quebec)	VECD (mg/m ³)	14 mg/m ³ (vapour)
Canada (Quebec)	VECD (ppm)	2 ppm (vapour)
Canada (Quebec)	VEMP (mg/m ³)	7 mg/m ³ (vapour)
Canada (Quebec)	VEMP (ppm)	1 ppm (vapour)
USA - ACGIH	ACGIH TWA (ppm)	1 ppm (vapor)
USA - ACGIH	ACGIH STEL (ppm)	2 ppm (vapor)
USA - IDLH	US IDLH (ppm)	100 ppm (vapor)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	7 mg/m ³ (vapor)
USA - NIOSH	NIOSH REL (TWA) (ppm)	1 ppm (vapor)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	7 mg/m ³ (vapor)
USA - OSHA	OSHA PEL (TWA) (ppm)	1 ppm (vapor)
Isoamyl acetate (123-92-2)		
EU	IOELV TWA (mg/m ³)	270 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	540 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
Austria	MAK (mg/m ³)	270 mg/m ³ (Pentyl acetate (all isomers))
Austria	MAK (ppm)	50 ppm (Pentyl acetate (all isomers))

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Isoamyl acetate (123-92-2)		
Austria	MAK Short time value (mg/m ³)	540 mg/m ³ (Pentylacetate)
Austria	MAK Short time value (ppm)	100 ppm (Pentylacetate)
Belgium	Limit value (mg/m ³)	270 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	540 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Bulgaria	OEL TWA (mg/m ³)	270 mg/m ³
Bulgaria	OEL TWA (ppm)	50 ppm
Bulgaria	OEL STEL (mg/m ³)	540 mg/m ³
Bulgaria	OEL STEL (ppm)	100 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	270 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	540 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m ³)	270 mg/m ³
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m ³)	540 mg/m ³
Cyprus	OEL STEL (ppm)	100 ppm
Denmark	Limit (long-term) (mg/m ³)	271 mg/m ³ (Amyl acetate, all isomers)
Denmark	Limit (long-term) (ppm)	50 ppm (Amyl acetate, all isomers)
Estonia	OEL TWA (mg/m ³)	270 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	540 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Finland	HTP-arvo (8h) (mg/m ³)	270 mg/m ³ (Pentyl acetate)
Finland	HTP-arvo (8h) (ppm)	50 ppm (Pentyl acetate)
Finland	HTP-arvo (15 min)	540 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	VME (mg/m ³)	270 mg/m ³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
France	VLE (mg/m ³)	540 mg/m ³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	270 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Gibraltar	Eight hours mg/m ³	270 mg/m ³
Gibraltar	Eight hours ppm	50 ppm
Gibraltar	Short-term mg/m ³	540 mg/m ³
Gibraltar	Short-term ppm	100 ppm
Greece	OEL TWA (mg/m ³)	530 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	800 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Hungary	Exposure Limit Value	270 mg/m ³
Hungary	CK-érték	540 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	260 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	520 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Italy	OEL TWA (mg/m ³)	270 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	540 mg/m ³
Italy	OEL STEL (ppm)	100 ppm

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Isoamyl acetate (123-92-2)		
Latvia	OEL TWA (mg/m ³)	270 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Lithuania	IPRV (mg/m ³)	270 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	540 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Luxembourg	OEL TWA (mg/m ³)	270 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	540 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	OEL TWA (mg/m ³)	270 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	540 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	530 mg/m ³
Poland	NDS (mg/m ³)	250 mg/m ³
Poland	NDSch (mg/m ³)	500 mg/m ³
Portugal	OEL TWA (mg/m ³)	270 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	50 ppm (indicative limit value)
Portugal	OEL STEL (mg/m ³)	540 mg/m ³ (indicative limit value)
Portugal	OEL STEL (ppm)	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)
Romania	OEL TWA (mg/m ³)	270 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	540 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	270 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	540 mg/m ³
Slovenia	OEL TWA (mg/m ³)	270 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	540 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	VLA-ED (mg/m ³)	270 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	540 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	270 mg/m ³ (Pentyl acetates)
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm (Pentyl acetates)
Sweden	kortidsvärde (KTV) (mg/m ³)	540 mg/m ³ (Pentyl acetates)
Sweden	kortidsvärde (KTV) (ppm)	100 ppm (Pentyl acetates)
Norway	TWA (AN) (mg/m ³)	260 mg/m ³
Norway	TWA (AN) (ppm)	50 ppm
Norway	TWA (Kortidsverdi) (mg/m ³)	325 mg/m ³ (value calculated)
Norway	TWA (Kortidsverdi) (ppm)	75 ppm (value calculated)
Australia	TWA (mg/m ³)	270 mg/m ³
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m ³)	541 mg/m ³
Australia	STEL (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m ³)	532 mg/m ³ (Pentyl acetates)
Canada (Quebec)	VECD (ppm)	100 ppm (Pentyl acetates)
Canada (Quebec)	VEMP (mg/m ³)	266 mg/m ³ (Pentyl acetates)

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Isoamyl acetate (123-92-2)		
Canada (Quebec)	VEMP (ppm)	50 ppm (Pentyl acetates)
USA - ACGIH	ACGIH TWA (ppm)	50 ppm (Pentyl acetate, all isomers)
USA - ACGIH	ACGIH STEL (ppm)	100 ppm (Pentyl acetate, all isomers)
USA - IDLH	US IDLH (ppm)	1000 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	525 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	525 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
d-Limonene (5989-27-5)		
Finland	HTP-arvo (8h) (mg/m ³)	140 mg/m ³
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	280 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 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)
Spain	VLA-ED (mg/m ³)	168 mg/m ³
Spain	VLA-ED (ppm)	30 ppm
Norway	TWA (AN) (mg/m ³)	140 mg/m ³
Norway	TWA (AN) (ppm)	25 ppm
Norway	TWA (Korttidsverdi) (mg/m ³)	175 mg/m ³ (value calculated)
Norway	TWA (Korttidsverdi) (ppm)	37.5 ppm (value calculated)
Switzerland	MAK (mg/m ³)	40 mg/m ³
Switzerland	MAK (ppm)	7 ppm
Switzerland	KZGW (mg/m ³)	80 mg/m ³
Switzerland	KZGW (ppm)	14 ppm

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.
Eye protection	: Chemical goggles or safety glasses. Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
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
Color	: light yellow. amber.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available

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Flash point	: 65 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: ≈ 0.95
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapor-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	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

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.

12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment. Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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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 vapors 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)	: 3082
UN-No. (IMDG)	: 3082
UN-No. (IATA)	: 3082
UN-No. (ADN)	: 3082
UN-No. (RID)	: 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. (d-Limonene), 9, III, (-)

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, MARINE POLLUTANT

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (d-Limonene), 9, III

Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III

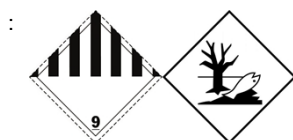
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9

Hazard labels (ADR) : 9



IMDG

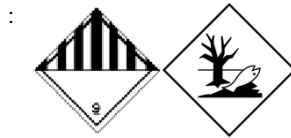
Transport hazard class(es) (IMDG) : 9

Hazard labels (IMDG) : 9

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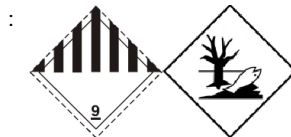
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



IATA

Transport hazard class(es) (IATA) : 9

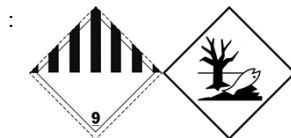
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

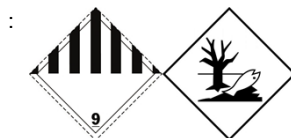
Hazard labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Hazard labels (RID) : 9



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 provision (ADR) : 274, 335, 375, 601

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

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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) : -
EAC : *3Z

- Transport by sea

Special provision (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
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
CAO max net quantity (IATA) : 450L
Special provision (IATA) : A97, A158, A197
ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M6
Special provision (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 provision (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

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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:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Isoamyl acetate ; d-Limonene
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	French Pear #TCDL-CFRA-BOWL-NPRR ; Citronellyl acetate (mixed Isomers) ; Neryl acetate ; d-Limonene ; Eugenol ; Geranyl acetate ; Cinnamic aldehyde ; Triplal (Vertocitral)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	French Pear #TCDL-CFRA-BOWL-NPRR ; Aldehyde C-14 ; Citronellyl acetate (mixed Isomers) ; Ethylene brassylate ; d-Limonene ; Geranyl acetate ; Verdox ; Triplal (Vertocitral)
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Isoamyl acetate ; d-Limonene

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

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

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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
Recommendations Danish Regulation	: 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

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) 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
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
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
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
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

FCF SDS EU CLP.

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.