

SECTION 1. Iden Pagina 1 di 16 tification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name	100% Pure Essence _ Concentrated laundry perfume Mousse Rose	
Model:	LPL1002M	LPL1042M
Code:	35602036	35602653
EAN:	8016361971097	8059019052229
UFI :	3720-30E0-R002-V459	

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

Intended use	Concentrated laundry perfume
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1.3. Details of the supplier of the safety data sheet

Name	Candy Hoover Group S.r.l.	
Full address	Via Comolli, 16 - 20861 Brugherio (MB) - Italy	
Telephone number	+39 039 20861	
e-mail address of the competent person responsible for the Safety Data Sheet	sds@dgsasrl.it	

1.4. Emergency telephone number

For urgent inquiries refer to	ENGLAND, SCOTLAND (NHS 24) WALES (NHS Direct Wales) - For medical advice contact 111
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SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Warning

Hazard statements:

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P273	Avoid release to the environment.
P501	Dispose of contents / container in accordance with local regulation.
Additional precautionary statements:	
P280	Wear eye protection / face protection.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Contains:

butanedione
coumarin
3,7-dimethylocta-1,6-dien-3-ol
3,7-dimethyloct-6-en-1-ol
2-methyl-3-[4-(propan-2-yl)phenyl]propanal
(2E)-2-(phenylmethylidene)octanal
4-tert-butylcyclohexyl acetate
benzyl salicylate
Cyclohexanemethanol, 4-(1-methylethyl)-
3,5,6,6-tetramethyl-4-methyleneheptan-2-one
allyl phenoxyacetate

3-methyl-4-(2,6,6-trimethylcyclohex-2-enyl)but-3-en-2-one

2.3. Other hazardsOn the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
1,3,4,6,7,8-hexahydro-4,6,6,7,8-hexamethylindeno[5,6-c]pyran		
INDEX -	$10 \leq x < 20$	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 214-946-9		
CAS 1222-05-5		
REACH Reg. 01-2119488227-29		
benzyl acetate		
INDEX -	$1 \leq x < 3$	Aquatic Chronic 3 H412
EC 205-399-7		
CAS 140-11-4		
2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-		
INDEX 603-101-00-3	$1 \leq x < 3$	Eye Irrit. 2 H319
EC 405-040-6		
CAS 63500-71-0		
3,5,6,6-tetramethyl-4-methyleneheptan-2-one		
INDEX -	$0,1 \leq x < 0,9$	Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 279-825-5		
CAS 81786-75-6		
4-tert-butylcyclohexyl acetate		
INDEX -	$0,1 \leq x < 0,9$	Skin Sens. 1B H317
EC 250-954-9		
CAS 32210-23-4		
benzyl salicylate		
INDEX -	$0,1 \leq x < 0,9$	Eye Irrit. 2 H319, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC 204-262-9		
CAS 118-58-1		
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate		
INDEX -	$0,1 \leq x < 0,9$	Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 LD50 Oral: 2000 mg/kg
EC 911-280-7		
CAS -		
3,7-dimethyloct-6-en-1-ol		
INDEX -	$0,1 \leq x < 0,9$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 203-375-0		
CAS 106-22-9		
REACH Reg. 01-2119453995-23		
diphenyl ether		
INDEX -	$0,1 \leq x < 0,9$	Eye Irrit. 2 H319, Aquatic Chronic 2 H411
EC 202-981-2		
CAS 101-84-8		
Cyclohexanemethanol, 4-(1-methylethyl)-		
INDEX -	$0,1 \leq x < 0,9$	Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 939-719-8		
CAS 5502-75-0		
coumarin		
INDEX -	$0,1 \leq x < 0,9$	Acute Tox. 4 H302, Skin Sens. 1B H317 LD50 Oral: 520 mg/kg
EC 202-086-7		
CAS 91-64-5		
REACH Reg. 01-2119949300-45		
3,7-dimethylocta-1,6-dien-3-ol		
INDEX 603-235-00-2	$0,1 \leq x < 0,9$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 201-134-4		
CAS 78-70-6		
REACH Reg. 01-2119474016-42		
allyl phenoxyacetate		
INDEX -	$0,1 \leq x < 0,9$	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1

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EC 231-335-2		LD50 Oral: 835 mg/kg, LD50 Dermal: 2000 mg/kg
CAS 7493-74-5		
2-methyl-3-[4-(propan-2-yl)phenyl]propanal		
INDEX -	0,1 ≤ x < 0,9	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC 203-161-7		
CAS 103-95-7		
REACH Reg. 01-2119970582-32		
3-methyl-4-(2,6,6-trimethylcyclohex-2-enyl)but-3-en-2-one		
INDEX -	0,1 ≤ x < 0,9	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 204-846-3		
CAS 127-51-5		
(2E)-2-(phenylmethylidene)octanal		
INDEX -	0,1 ≤ x < 0,9	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411
EC 639-566-4		
CAS 165184-98-5		
6-tert-butyl-1,1-dimethylindan-4-yl methyl ketone		
INDEX -	0,1 ≤ x < 0,9	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 236-114-4		
CAS 13171-00-1		
5',6',7',8'-tetrahydro-3',5',5',6',8',8'-hexamethyl-2'-acetone		
INDEX -	0,1 ≤ x < 0,9	Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 LD50 Oral: 920 mg/kg
EC 216-133-4		
CAS 1506-02-1		
butanedione		
INDEX -	0,01 ≤ x < 0,1	Flam. Liq. 2 H225, Acute Tox. 3 H331, Acute Tox. 4 H302, STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317 LD50 Oral: 1580 mg/kg, STA Inhalation vapours: 3 mg/l, STA Inhalation mists/powders: 0,501 mg/l
EC 207-069-8		
CAS 431-03-8		
isopentyl acetate		
INDEX -	0,01 ≤ x < 0,1	Flam. Liq. 3 H226, EUH066
EC 204-662-3		
CAS 123-92-2		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):10

7.3. Specific end use(s)

See Subsection 1.2

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

Predicted no-effect concentration - PNEC

Normal value in fresh water	6,8	µg/L
Normal value in marine water	440	ng/L
Normal value for fresh water sediment	2	mg/kg/d
Normal value for marine water sediment	394	µg/L
Normal value of STP microorganisms	1	mg/l
Normal value for the food chain (secondary poisoning)	20,4	mg/kg
Normal value for the terrestrial compartment	1,5	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		2,3 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	4 mg/m3	NPI	NPI	NPI	13,5 mg/m3

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Skin	NPI	NPI	NPI	22 mg/kg bw/d	NPI	NPI	NPI	36,7 mg/kg bw/d
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benzyl acetate

Predicted no-effect concentration - PNEC

Normal value in fresh water	18,4	µg/L
Normal value in marine water	1,84	µg/L
Normal value for fresh water sediment	526	µg/L
Normal value for marine water sediment	52,6	µg/L
Normal value for marine water, intermittent release	40	µg/L
Normal value of STP microorganisms	8,55	mg/l
Normal value for the food chain (secondary poisoning)	NEA	
Normal value for the terrestrial compartment	94,45	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		1,3 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	2,2 mg/m ³	NPI	NPI	NPI	9 mg/m ³
Skin	NPI	NPI	NPI	1,3 mg/kg bw/d	NPI	NPI	NPI	2,5 mg/kg bw/d

2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-

Predicted no-effect concentration - PNEC

Normal value in fresh water	94	µg/L
Normal value in marine water	9,4	µg/L
Normal value for fresh water sediment	412	µg/L
Normal value for marine water sediment	41,2	µg/L
Normal value for marine water, intermittent release	940	µg/L
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	NEA	
Normal value for the terrestrial compartment	90,2	µg/L
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		7,5 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	13 mg/m ³	NPI	NPI	NPI	44,1 mg/m ³
Skin	NPI	NPI	NPI	25 mg/kg bw/d	NPI	NPI	NPI	41,7 mg/kg bw/d

4-tert-butylcyclohexyl acetate

Predicted no-effect concentration - PNEC

Normal value in fresh water	5,3	µg/L
Normal value in marine water	530	µg/L
Normal value for fresh water sediment	2,01	mg/kg/d
Normal value for marine water sediment	210	µg/kg
Normal value for marine water, intermittent release	53	µg/L
Normal value of STP microorganisms	12	mg/l
Normal value for the food chain (secondary poisoning)	66,67	mg/kg
Normal value for the terrestrial compartment	420	µg/kg soil dw
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		NPI				
Inhalation	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI
Skin	MED	NPI	MED	NPI	MED	NPI	MED	NPI

benzyl salicylate

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,03	µg/L
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Normal value in marine water	103	µg/L
Normal value for fresh water sediment	583	µg/kg dw
Normal value for marine water sediment	58,3	µg/kg dw
Normal value for marine water, intermittent release	10,3	µg/L
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	52,7	mg/kg
Normal value for the terrestrial compartment	1,41	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		0,790 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	1,37 mg/m3	NPI	NPI	NPI	7,8 mg/m3
Skin	MED	NPI	MED	0,790 mg/kg bw/d	MED	NPI	MED	2,21 mg/kg bw/d

3,7-dimethyloct-6-en-1-ol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,002	mg/l
Normal value for fresh water sediment	0,026	mg/kg
Normal value for marine water sediment	0,003	mg/kg/d
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	0,004	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				13,8 mg/kg bw/d				
Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3	10 mg/m3		10 mg/m3	161,6 mg/m3
Skin				196,4 mg/kg bw/d				327,4 mg/kg bw/d

diphenyl ether**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	7,1	1	7,1	1	RESP
VLA	ESP	7,1	1	14,2	2	
VLEP	FRA	7	1	14	2	
VLEP	ITA	7	1	14	2	
TGG	NLD	7				
NDS/NDSch	POL	7				
WEL	GBR	7	1	14	2	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	VND	VND	VND	VND	7 mg/m3	NPI	14 mg/m3	59 mg/m3
Skin					NPI	NPI	VND	25 mg/kg bw/d

linalool

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,2	mg/l
Normal value in marine water	0,02	mg/l
Normal value for fresh water sediment	2,22	mg/kg
Normal value for marine water sediment	0,222	mg/kg
Normal value for water, intermittent release	2	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,327	mg/kg

Health - Derived no-effect level - DNEL / DMEL

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Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,2 mg/kg bw/d		0,2 mg/kg bw/d				
Inhalation		4,1 mg/m3		0,7 mg/m3				2,8 mg/m3
Skin	15 mg/kg bw/d	2,5 mg/kg bw/d	15 mg/kg bw/d	1,25 mg/kg bw/d	15 mg/kg bw/d		15 mg/kg bw/d	2,5 mg/kg bw/d

2-methyl-3-[4-(propan-2-yl)phenyl]propanal

Predicted no-effect concentration - PNEC	
Normal value in fresh water	8,8 µg/L
Normal value in marine water	880 ng/L
Normal value for fresh water sediment	1,02 mg/kg/d
Normal value for marine water sediment	102 µg/kg
Normal value of STP microorganisms	1 mg/l
Normal value for the food chain (secondary poisoning)	2 mg/kg
Normal value for the terrestrial compartment	199 µg/kg soil dw

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		130 µg/kg bw/day				
Inhalation	NPI	NPI	NPI	220 µg/m3	NPI	NPI	NPI	1,23 mg/m3
Skin	LOW	NPI	LOW	130 µg/kg bw/day	LOW	NPI	LOW	350 µg/kg bw/day

(2E)-2-(phenylmethyldene)octanal

Predicted no-effect concentration - PNEC	
Normal value in fresh water	1,26 µg/L
Normal value in marine water	126 ng/L
Normal value for fresh water sediment	3,2 mg/kg/d
Normal value for marine water sediment	64 µg/kg/d
Normal value of STP microorganisms	10 mg/l
Normal value for the food chain (secondary poisoning)	6,6 mg/kg
Normal value for the terrestrial compartment	398 µg/kg food

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				56 µg/kg bw/d				
Inhalation	4,71 mg/m3			19 µg/m3	6,28 mg/m3			78 µg/m3
Skin	78,7 µg/cm2		78,7 µg/cm2	9,11 mg/kg bw/d	525 µg/cm2		525 µg/cm2	18,2 mg/kg bw/d

isopentyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	270	50	270	50	
TGG	NLD			530		
NDS/NDSCh	POL	250		500		
WEL	GBR	270	50	541	100	
OEL	EU	270	50	540	100	

butanedione

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	0,07	0,02	0,36	0,1	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	colourless	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,00	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)
# 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	
LD50 (Dermal):	3250 mg/kg
LD50 (Oral):	3000 mg/kg
LC50 (Inhalation vapours):	6,04 mg/l/4h
# benzyl acetate	
LD50 (Dermal):	5000 mg/kg
LD50 (Oral):	2000 mg/kg
LC50 (Inhalation vapours):	0,766 mg/l/4h
# 2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	
LD50 (Dermal):	2000 mg/kg
LD50 (Oral):	2000 mg/kg
# 4-tert-butylcyclohexyl acetate	
LD50 (Dermal):	4680 mg/kg
LD50 (Oral):	3370 mg/kg
# benzyl salicylate	
LD50 (Dermal):	2000 mg/kg
LD50 (Oral):	3000 mg/kg
# Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	
LD50 (Dermal):	2000 mg/kg
LD50 (Oral):	2000 mg/kg
# diphenyl ether	
LD50 (Dermal):	7940 mg/kg
LD50 (Oral):	2830 mg/kg
# 5',6',7',8'-tetrahydro-3',5',5',6',8',8'-hexamethyl-2'-acetonephthone	
LD50 (Dermal):	7940 mg/kg
LD50 (Oral):	920 mg/kg
# Cyclohexanemethanol, 4-(1-methylethyl)-	
LD50 (Dermal):	2000 mg/kg
LD50 (Oral):	10000 mg/kg

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# coumarin	
LD50 (Dermal):	293 mg/kg Rat
LD50 (Oral):	520 mg/kg Rat
# linalool	
LD50 (Oral):	2790 mg/kg rat
# allyl phenoxyacetate	
LD50 (Dermal):	2000 mg/kg (rat)
LD50 (Oral):	835 mg/kg
# 2-methyl-3-[4-(propan-2-yl)phenyl]propanal	
LD50 (Dermal):	5000 mg/kg
LD50 (Oral):	3180 mg/kg
# 3-methyl-4-(2,6,6-trimethylcyclohex-2-enyl)but-3-en-2-one	
LD50 (Dermal):	5000 mg/kg
LD50 (Oral):	5000 mg/kg
# (2E)-2-(phenylmethylidene)octanal	
LD50 (Dermal):	3000 mg/kg
LD50 (Oral):	3100 mg/kg
# 6-tert-butyl-1,1-dimethylindan-4-yl methyl ketone	
LD50 (Oral):	5000 mg/kg
# isopentyl acetate	
LD50 (Dermal):	5000 mg/kg
LD50 (Oral):	7400 mg/kg
# butanedione	
LD50 (Dermal):	5000 mg/kg
LD50 (Oral):	1580 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

# linalool	
LC50 - for Fish	27,8 mg/l/96h
EC50 - for Crustacea	59 mg/l/48h
EC50 - for Algae / Aquatic Plants	156,7 mg/l/72h
# 2-methyl-3-[4-(propan-2-yl)phenyl]propanal	
LC50 - for Fish	1,42 mg/l/96h
EC50 - for Crustacea	1,4 mg/l/48h
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	2,6 mg/l

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# (2E)-2-(phenylmethylidene)octanal	
LC50 - for Fish	1,7 mg/l/96h
EC50 - for Algae / Aquatic Plants	0,065 mg/l/72h
Chronic NOEC for Fish	0,93 mg/l
# 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	
LC50 - for Fish	0,95 mg/l/96h
EC50 - for Crustacea	0,194 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,723 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,111 mg/l
# benzyl acetate	
LC50 - for Fish	4 mg/l/96h
EC50 - for Crustacea	17 mg/l/48h
EC50 - for Algae / Aquatic Plants	92 mg/l/72h
EC10 for Algae / Aquatic Plants	52 mg/l/72h
Chronic NOEC for Fish	0,92 mg/l
# 2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	
EC50 - for Crustacea	320 mg/l/48h
EC50 - for Algae / Aquatic Plants	100 mg/l/72h
# 4-tert-butylcyclohexyl acetate	
LC50 - for Fish	8,6 mg/l/96h
EC50 - for Crustacea	8,6 mg/l/48h
EC50 - for Algae / Aquatic Plants	22 mg/l/72h
EC10 for Algae / Aquatic Plants	6,8 mg/l/72h
# benzyl salicylate	
LC50 - for Fish	1,03 mg/l/96h
EC50 - for Crustacea	1,16 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,29 mg/l/72h
EC10 for Algae / Aquatic Plants	0,502 mg/l/72h
# Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	
LC50 - for Fish	1,34 mg/l/96h
EC50 - for Crustacea	0,88 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,77 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,2 mg/l
# diphenyl ether	
LC50 - for Fish	4,2 mg/l/96h
EC50 - for Crustacea	2,92 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,455 mg/l/72h
# 5',6',7',8'-tetrahydro-3',5',5',6',8',8'-hexamethyl-2'-acetonaphthone	
LC50 - for Fish	1,49 mg/l/96h
EC50 - for Crustacea	0,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,835 mg/l/72h
EC10 for Algae / Aquatic Plants	0,404 mg/l/72h
# Cyclohexanemethanol, 4-(1-methylethyl)-	
LC50 - for Fish	4,2 mg/l/96h
EC50 - for Crustacea	13 mg/l/48h
EC50 - for Algae / Aquatic Plants	10 mg/l/72h
Chronic NOEC for Fish	0,426 mg/l 33 days
Chronic NOEC for Crustacea	0,35 mg/l 21 days
# allyl phenoxyacetate	
LC50 - for Fish	0,133 mg/l/96h
EC50 - for Crustacea	2,07 mg/l/48h
EC50 - for Algae / Aquatic Plants	24,9 mg/l/72h
EC10 for Algae / Aquatic Plants	12,7 mg/l/72h
# 3-methyl-4-(2,6,6-trimethylcyclohex-2-enyl)but-3-en-2-one	
LC50 - for Fish	10,9 mg/l/96h
EC50 - for Crustacea	9 mg/l/48h
EC50 - for Algae / Aquatic Plants	20 mg/l/72h
# 6-tert-butyl-1,1-dimethylindan-4-yl methyl ketone	
EC50 - for Crustacea	0,43 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,49 mg/l/72h
Chronic NOEC for Crustacea	0,49 mg/l (72 h)

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isopentyl acetate
LC50 - for Fish 11,1 mg/l/96h
EC50 - for Crustacea 26,3 mg/l/48h
Chronic NOEC for Algae / Aquatic Plants 129 mg/l (4 days)

butanedione
LC50 - for Fish 100 mg/l/96h

12.2. Persistence and degradability

linalool

Rapidly degradable

2-methyl-3-[4-(propan-2-yl)phenyl]propanal

Rapidly degradable

(2E)-2-(phenylmethylidene)octanal

Rapidly degradable

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

NOT rapidly degradable

benzyl acetate

Rapidly degradable

2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-

Entirely degradable

4-tert-butylcyclohexyl acetate

Rapidly degradable

benzyl salicylate

Solubility in water 8,8 mg/l @ 20 °C

Rapidly degradable

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate

Solubility in water 5,5 mg/l @ 20 °C

Rapidly degradable

diphenyl ether

Solubility in water 18 mg/l @ 25 °C

Rapidly degradable

5',6',7',8'-tetrahydro-3',5',5',6',8',8'-hexamethyl-2'-acetone

Solubility in water 1,25 mg/l @ 25 °C

Entirely degradable

Cyclohexanemethanol, 4-(1-methylethyl)-

Solubility in water 213,7 mg/l @ 20 °C

Rapidly degradable

allyl phenoxyacetate

Solubility in water 559 mg/l @ 20 °C

3-methyl-4-(2,6,6-trimethylcyclohex-2-enyl)but-3-en-2-one

Solubility in water 27,953 mg/l @ 25 °C

Entirely degradable

6-tert-butyl-1,1-dimethylindan-4-yl methyl ketone

Solubility in water 3,29 mg/l @ 24 °C

NOT rapidly degradable

isopentyl acetate

Solubility in water 2 g/l @ 25 °C

Rapidly degradable

12.3. Bioaccumulative potential

2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-

Partition coefficient: n-octanol/water 1,65 Log Kow

4-tert-butylcyclohexyl acetate

Partition coefficient: n-octanol/water 4,8 Log Kow

benzyl salicylate

Partition coefficient: n-octanol/water 4 Kow @ 35 °C

BCF 311 l/kg

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate

Partition coefficient: n-octanol/water 4,47 Log Kow @ 30 °C

BCF 570 L/kg ww

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diphenyl ether

Partition coefficient: n-octanol/water 4,21 Log Kow @ 25 °C

5',6',7',8'-tetrahydro-3',5',6',8'-hexamethyl-2'-acetone

Partition coefficient: n-octanol/water 5,4 Log Kow @ 25 °C

BCF 597 L/kg ww

Cyclohexanemethanol, 4-(1-methylethyl)-

Partition coefficient: n-octanol/water 3,55 Log Kow @ 25 °C

BCF 81,5 L/kg ww

allyl phenoxyacetate

Partition coefficient: n-octanol/water 2,33 Log Kow @ 24,7 °C

3-methyl-4-(2,6,6-trimethylcyclohex-2-enyl)but-3-en-2-one

Partition coefficient: n-octanol/water 4,288 Log Kow @ 25 °C

6-tert-butyl-1,1-dimethylindan-4-yl methyl ketone

Partition coefficient: n-octanol/water 5,7 Log Kow @ 25 °C

isopentyl acetate

Partition coefficient: n-octanol/water 2,7 @ 35 °C

12.4. Mobility in soil

4-tert-butylcyclohexyl acetate

Partition coefficient: soil/water 3,66 l/kg

Reaction mass of 2-methylbutyl salicylate and pentyl salicylate

Partition coefficient: soil/water 5012 l/kg 3.7 dimensionless

12.5. Results of PBT and vPvB assessmentOn the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IMDG Code provisions.IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IATA dangerous goods regulations.**14.2. UN proper shipping name**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; (2E)-2-(phenylmethylenidene)octanal)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; (2E)-2-(phenylmethylenidene)octanal)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; (2E)-2-(phenylmethylenidene)octanal)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9



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IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 L Tunnel restriction code: (-)

Special provision: -

IMDG: EMS: F-A, S-F Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 450 L Packaging instructions: 964

Passengers: Maximum quantity: 450 L Packaging instructions: 964

Special provision: A97, A158, A197, A215

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Seveso Category - Directive 2012/18/EU: E2Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product:

Point 3 - 40

Contained substance:

Point 75 2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-

Point 75 3,7-dimethylocta-1,6-dien-3-ol REACH Reg.: 01-2119474016-42

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

This Safety Data Sheet has been drawn up on the basis of the information contained in the SDS (Rev.2 of 05/04/2021) of the Supplier of the mixture

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2

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Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)



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19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 09 / 11 / 15.