



AIR CONDITIONING DISINFECTANT BARD AHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Reference number: 4334
Issue date: 19-02-16 Revision date: 13-04-21 Supersedes version of: 20-05-20 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Product name : AIR CONDITIONING DISINFECTANT BARD AHL
Product code : 4334 # 734433R7
Type of product : Detergent, Biocide regulation (EU 528/2012), Aerosol
Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Function or use category : Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

SADAPS BARD AHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI - BELGIQUE
T +32 (0).69.59.03.60 - F +32 (0).69.59.03.61
msds@bardahlfrance.com - www.bardahl.fr

Supplier

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msds@bardahlfrance.com - www.bardahl.fr

1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674 Abu Dhabi	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Aerosol, Category 1 H222;H229
Serious eye damage/eye irritation, Category 2 H319
Full text of H statements : see section 16

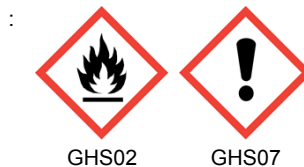
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of the empty packaging or the unused product in accordance with local regulations for waste disposal. In the second case, it is forbidden to recycle the packaging.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.

Extra phrases

: Use as per instructions and specifically for this purpose.
Contains : Ethanol, N°CAS 64-17-5: 67.656g/100g, Propanol, CAS N°67-63-0: 0.752g/100g, Cinnamaldehyde, N°CAS 104-55-2: 0.001g/100g, Disinfectant, (TP2), Expiry date and batch number: see packaging, Do not use or spray near children animals or any other person with possible respiratory problems.

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol; ethyl alcohol substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, LV, NL, PL, RO, SE)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	60-80	Flam. Liq. 2, H225 Eye Irrit. 2, H319
propan-2-ol substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, LV, PL, RO, SE)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butanone; ethyl methyl ketone substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
(R)-p-mentha-1,8-diene substance with national workplace exposure limit(s) (DE, ES, FI)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7 REACH-no: 01-2119529223-47	<0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits

Name	Product identifier	Specific concentration limits
ethanol; ethyl alcohol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	(50 ≤C < 100) Eye Irrit. 2, H319

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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 medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: Vapours may cause drowsiness and dizziness.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. 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 : Recover the product with absorbent material.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Extremely flammable aerosol. Pressurised container: May burst if heated.
Precautions for safe handling : Do not eat, drink or smoke when using this product. Provide good ventilation in process area to prevent formation of vapour. For further information refer to section 8: "Exposure controls/personal protection". Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Keep out of frost.
Heat and ignition sources	: Keep away from naked flames/heat. Keep away from ignition sources. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Storage area	: Store in a well-ventilated place. Store in a dry place.
Special rules on packaging	: Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

ethanol; ethyl alcohol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	1900 mg/m ³
MAK (OEL TWA) [ppm]	1000 ppm
MAK (OEL STEL)	3800 mg/m ³
MAK (OEL STEL) [ppm]	2000 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	1000 mg/m ³
OEL TWA [ppm]	1907 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1900 mg/m ³
OEL TWA [2]	1000 ppm
OEL STEL	3800 mg/m ³
OEL STEL [ppm]	2000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1900 mg/m ³
HTP (OEL TWA) [2]	1000 ppm
HTP (OEL STEL)	2500 mg/m ³
HTP (OEL STEL) [ppm]	1300 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	1900 mg/m ³
VME (OEL TWA) [ppm]	1000 ppm
VLE (OEL C/STEL)	9500 mg/m ³
VLE (OEL C/STEL) [ppm]	5000 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	380 mg/m ³
AGW (OEL TWA) [2]	200 ppm

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ethanol; ethyl alcohol (64-17-5)	
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1900 mg/m ³
Ireland - Occupational Exposure Limits	
OEL STEL [ppm]	1000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	1000 mg/m ³
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	260 mg/m ³
MAC-TGG (OEL TWA) [ppm]	136 ppm
MAC-C (OEL C)	1900 mg/m ³
MAC-C (OEL C) [ppm]	992 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1900 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	1900 mg/m ³
OEL TWA [ppm]	1000 ppm
OEL STEL	9500 mg/m ³
OEL STEL [ppm]	5000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	1910 mg/m ³
VLA-ED (OEL TWA) [2]	1000 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1000 mg/m ³
NGV (OEL TWA) [ppm]	500 ppm
KTV (OEL STEL)	1900 mg/m ³
KTV (OEL STEL) [ppm]	1000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1920 mg/m ³
WEL TWA (OEL TWA) [2]	1000 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	960 mg/m ³
MAK (OEL TWA) [2]	500 ppm
KZGW (OEL STEL)	1920 mg/m ³
KZGW (OEL STEL) [ppm]	1000 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1900 mg/m ³
ACGIH OEL TWA [ppm]	1000 ppm

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propan-2-ol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	500 mg/m ³
MAK (OEL TWA) [ppm]	200 ppm
MAK (OEL STEL)	2000 mg/m ³
MAK (OEL STEL) [ppm]	800 ppm
Belgium - Occupational Exposure Limits	
Local name	Alcool isopropylique # Isopropylalcohol
OEL TWA	500 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	1000 mg/m ³
OEL STEL [ppm]	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
OEL TWA [1]	490 mg/m ³
OEL TWA [2]	200 ppm
OEL STEL	980 mg/m ³
OEL STEL [ppm]	400 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	500 mg/m ³
HTP (OEL TWA) [2]	200 ppm
HTP (OEL STEL)	620 mg/m ³
HTP (OEL STEL) [ppm]	250 ppm
OEL C	980 mg/m ³
OEL C [ppm]	400 ppm
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE (OEL C/STEL)	980 mg/m ³
VLE (OEL C/STEL) [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	500 mg/m ³
AGW (OEL TWA) [2]	200 ppm
Germany - Biological limit values (TRGS 903)	
BLV	25 mg/l Urin, Volblut
Hungary - Occupational Exposure Limits	
CK (OEL STEL)	500 mg/m ³
MK (OEL C)	2000 mg/m ³

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propan-2-ol (67-63-0)	
Ireland - Occupational Exposure Limits	
OEL TWA [2]	200 ppm
OEL STEL [ppm]	400 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	350 mg/m ³
OEL STEL	600 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	900 mg/m ³
NDSP (OEL C)	1200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
OEL TWA [ppm]	81 ppm
OEL STEL	500 mg/m ³
OEL STEL [ppm]	203 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	500 mg/m ³
VLA-ED (OEL TWA) [2]	200 ppm
VLA-EC (OEL STEL)	1000 mg/m ³
VLA-EC (OEL STEL) [ppm]	400 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	500 mg/m ³
NGV (OEL TWA) [ppm]	200 ppm
KTV (OEL STEL)	1000 mg/m ³
KTV (OEL STEL) [ppm]	400 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	999 mg/m ³
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	1250 mg/m ³
WEL STEL (OEL STEL) [ppm]	500 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	500 mg/m ³
MAK (OEL TWA) [2]	200 ppm
KZGW (OEL STEL)	1000 mg/m ³
KZGW (OEL STEL) [ppm]	400 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	980 mg/m ³
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL	1225 mg/m ³
ACGIH OEL STEL [ppm]	500 ppm

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propan-2-ol (67-63-0)	
USA - ACGIH - Biological Exposure Indices	
BEI	40 mg/l Urine
butanone; ethyl methyl ketone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	600 mg/m ³
IOEL TWA [ppm]	200 ppm
IOEL STEL	900 mg/m ³
IOEL STEL [ppm]	300 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	295 mg/m ³
MAK (OEL TWA) [ppm]	100 ppm
MAK (OEL STEL)	590 mg/m ³
MAK (OEL STEL) [ppm]	200 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	145 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	290 mg/m ³
OEL STEL [ppm]	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL STEL)	300 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	600 mg/m ³
VME (OEL TWA) [ppm]	200 ppm
VLE (OEL C/STEL)	900 mg/m ³
VLE (OEL C/STEL) [ppm]	300 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	600 mg/m ³
AGW (OEL TWA) [2]	200 ppm
Germany - Biological limit values (TRGS 903)	
BLV	2 mg/l
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	600 mg/m ³
CK (OEL STEL)	900 mg/m ³

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butanone; ethyl methyl ketone (78-93-3)	
Ireland - Occupational Exposure Limits	
OEL TWA [1]	600 mg/m ³
OEL TWA [2]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Italy - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
OEL TWA [ppm]	67 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	590 mg/m ³
MAC-TGG (OEL TWA) [ppm]	197 ppm
MAC-15 (OEL STEL)	900 mg/m ³
MAC-C (OEL C)	900 mg/m ³
MAC-C (OEL C) [ppm]	300 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	450 mg/m ³
NDSP (OEL C)	900 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	600 mg/m ³
VLA-ED (OEL TWA) [2]	200 ppm
VLA-EC (OEL STEL)	900 mg/m ³
VLA-EC (OEL STEL) [ppm]	300 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	900 mg/m ³
KTV (OEL STEL) [ppm]	300 ppm

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butanone; ethyl methyl ketone (78-93-3)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	600 mg/m ³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	899 mg/m ³
WEL STEL (OEL STEL) [ppm]	300 ppm
United Kingdom - Biological limit values	
BMGV	70 µmol/l
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	590 mg/m ³
MAK (OEL TWA) [2]	200 ppm
KZGW (OEL STEL)	590 mg/m ³
KZGW (OEL STEL) [ppm]	200 ppm
Turkey - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	590 mg/m ³
ACGIH OEL TWA [ppm]	200 ppm
(R)-p-mentha-1,8-diene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	140 mg/m ³
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	280 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	28 mg/m ³
AGW (OEL TWA) [2]	5 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	168 mg/m ³
VLA-ED (OEL TWA) [2]	30 ppm
VLA-EC (OEL STEL)	80 mg/m ³
VLA-EC (OEL STEL) [ppm]	14 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	40 mg/m ³
MAK (OEL TWA) [2]	7 ppm
KZGW (OEL STEL)	80 mg/m ³
KZGW (OEL STEL) [ppm]	14 ppm

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Gloves. EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

Good ventilation of the workplace required. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Pale yellow.
Odour	: Fruity.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 0 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,868 g/cm ³
Solubility	: Water. completely miscible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 20,5 mm ² /s (40°C)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 3,5 vol %
Upper explosive limit (UEL)	: 15 vol %

9.2. Other information

VOC content : 60 – 80 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions. Contains gas under pressure; may explode if heated.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

ethanol; ethyl alcohol (64-17-5)

LD50 oral rat	10470 mg/kg
LC50 Inhalation - Rat	124,7 mg/l 4 hours

propan-2-ol (67-63-0)

LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16400 mg/kg (24 hours)
LC50 Inhalation - Rat [ppm]	> 10000 ppm (6 hours)

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butanone; ethyl methyl ketone (78-93-3)	
LD50 oral rat	2193 mg/kg
LD50 dermal rabbit	> 10 ml/kg
4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
LD50 oral rat	3550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5 g/kg
Linalyl acetate (115-95-7)	
LD50 oral rat	9000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
linalool (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg
3,7-dimethyloctan-3-ol (78-69-3)	
LD50 oral rat	8270 mg/kg
LD50 dermal rabbit	> 5 g/kg
2-methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol (28219-60-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
(R)-p-mentha-1,8-diene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg
p-menthan-8-yl acetate (58985-18-5)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	5000 mg/kg
Cinnamaldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg
LD50 dermal rabbit	620 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanol; ethyl alcohol (64-17-5)	
NOAEL (chronic, oral, animal/female, 2 years)	0 mg/kg bodyweight

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Reproductive toxicity : Not classified
STOT-single exposure : Not classified

ethanol; ethyl alcohol (64-17-5)	
LOAEL (oral, rat)	3160 mg/kg bodyweight 7 semaines (tous les jours) - 14 semaines (tous les jours)
LOAEC (inhalation, rat, vapour)	1,3 mg/l 12 mois

propan-2-ol (67-63-0)	
NOAEC (inhalation, rat, vapour)	5000
STOT-single exposure	May cause drowsiness or dizziness.

butanone; ethyl methyl ketone (78-93-3)	
NOAEC (inhalation, rat, vapour)	5041 ppm/ 13 semaines (6h/jour, 5 jours/semaine)
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

linalool (78-70-6)	
NOAEL (subacute, oral, animal/male, 28 days)	117 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	117 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	250 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	250 mg/kg bodyweight

Aspiration hazard : Not classified

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Vaporizer	Aerosol
Viscosity, kinematic	< 20,5 mm ² /s (40°C)

SECTION 12: Ecological information

12.1. Toxicity

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

ethanol; ethyl alcohol (64-17-5)	
LC50 - Fish [1]	15300 mg/l LC 50 (Fish) / 96 h :
ErC50 algae	275 mg/l
ErC50 other aquatic plants	275 mg/l
NOEC chronic crustacea	9,6 mg/l

propan-2-ol (67-63-0)	
LC50 - Fish [1]	9640 – 10000 mg/l (Pimephales promelas)
LC50 - Other aquatic organisms [1]	> 10000 mg/l (Daphnia magna) 24h
EC50 - Crustacea [1]	(OCDE 202)
EC50 72h - Algae [1]	> 100 mg/l (Scenedesmus subspicatus)
NOEC chronic crustacea	2344 µmol/l (16 days, Daphnia Magna)

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butanone; ethyl methyl ketone (78-93-3)	
LC50 - Fish [1]	2993 mg/l LC50 96 h - fish [mg/l]
EC50 - Crustacea [1]	308 mg/l EC 50 (Daphnia)/ 48 h :
EC50 - Other aquatic organisms [1]	1972 mg/l EC50 72h - Algae [mg/l]
ErC50 algae	1972 mg/l
ErC50 other aquatic plants	1972 mg/l
4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
LC50 - Fish [1]	8,6 mg/l
EC50 - Crustacea [1]	5,3 mg/l
2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)	
LC50 - Fish [1]	4,81 mg/l
EC50 - Crustacea [1]	5,7 mg/l
EC50 96h - Algae [1]	3,88 mg/l
linalool (78-70-6)	
LC50 - Fish [1]	27,8 mg/l
EC50 72h - Algae [1]	156,7 mg/l
3,7-dimethyloctan-3-ol (78-69-3)	
LC50 - Fish [1]	8,9 mg/l 203 Poisson, essai de toxicité aigüe
EC50 - Crustacea [1]	14,2 mg/l 202 Daphnia sp. Essai d'immobilisation immédiate
EC50 72h - Algae [1]	22 mg/l
2-methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol (28219-60-5)	
LC50 - Fish [1]	6,3 mg/l
(R)-p-mentha-1,8-diene (5989-27-5)	
LC50 - Fish [1]	0,8 mg/l
EC50 - Crustacea [1]	69,6 mg/l
Cinnamaldehyde (104-55-2)	
LC50 - Fish [1]	> 10 mg/l
LC50 - Fish [2]	1,67 ppm Oncorhynchus mykiss - Juvenile
EC50 - Crustacea [1]	7,05 ppm
12.2. Persistence and degradability	
ethanol; ethyl alcohol (64-17-5)	
Biodegradation	84 %
propan-2-ol (67-63-0)	
Biodegradation	95 % 21 days
Additional information	:
butanone; ethyl methyl ketone (78-93-3)	
Biodegradation	98 % (OECD 301D method)

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4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
Biodegradation	75 % OECD 301B
Linalyl acetate (115-95-7)	
Persistence and degradability	Readily biodegradable.
[3R-(3α,3β,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)	
Persistence and degradability	Not readily biodegradable.
linalool (78-70-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	64,2 % 28 days - OECD 301D
3,7-dimethyloctan-3-ol (78-69-3)	
Persistence and degradability	(OECD 301F method). Readily biodegradable.
(R)-p-mentha-1,8-diene (5989-27-5)	
Persistence and degradability	Not readily biodegradable.
Cinnamaldehyde (104-55-2)	
Persistence and degradability	(OECD 301E method). Readily biodegradable.
Biodegradation	100 % (28 days)
12.3. Bioaccumulative potential	
ethanol; ethyl alcohol (64-17-5)	
BCF - Fish [1]	1 – 4,5 72h
Partition coefficient n-octanol/water (Log Kow)	-0,35 24°C
propan-2-ol (67-63-0)	
Partition coefficient n-octanol/water (Log Kow)	0,05 (25°C)
butanone; ethyl methyl ketone (78-93-3)	
Partition coefficient n-octanol/water (Log Kow)	0,3 40°C
4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
Bioconcentration factor (BCF REACH)	334,6
Partition coefficient n-octanol/water (Log Pow)	4,8
Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3,9
[3R-(3α,3β,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (32388-55-9)	
Partition coefficient n-octanol/water (Log Pow)	5,655
Bioaccumulative potential	High potential (3).
linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2,7
3,7-dimethyloctan-3-ol (78-69-3)	
Partition coefficient n-octanol/water (Log Pow)	3,3
Bioaccumulative potential	Low potential (1).

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2-methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol (28219-60-5)

Partition coefficient n-octanol/water (Log Pow) 4,65

(R)-p-mentha-1,8-diene (5989-27-5)

Partition coefficient n-octanol/water (Log Pow) 5,3

Cinnamaldehyde (104-55-2)

Bioconcentration factor (BCF REACH) 8

Partition coefficient n-octanol/water (Log Pow) 1,83

12.4. Mobility in soil

ethanol; ethyl alcohol (64-17-5)

Mobility in soil 0

propan-2-ol (67-63-0)

Partition coefficient n-octanol/water (Log Koc) 0,185 – 0,541

butanone; ethyl methyl ketone (78-93-3)

Partition coefficient n-octanol/water (Log Koc) 1,53 Estimation

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation. Dispose used or damaged aerosol cans at permitted disposal sites.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecology - waste materials : Do not discharge the product into the environment.

European List of Waste (LoW) code : 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information





In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS
Transport document description			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1

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ADR	IMDG	IATA	RID
14.3. Transport hazard class(es)			
2.1	2.1	2.1	2.1
			
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L

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Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W14
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

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

Contains no REACH substances with Annex XVII restrictions

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

VOC content : 60 – 80 %

Allergenic fragrances > 0,01%:

COUMARIN

Butylphenyl methylpropional

linalool

Detergent Regulation (648/2004/EC): Labelling of contents

Component	%
perfumes	
COUMARIN	
BUTYLPHENYL METHYLPROPIONAL	
LINALOOL	

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P3b FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids category 1	5000	50000

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15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

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)
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
List of sensitizing substances (TRGS 907)	: Contains sensitizing substances according TRGS 907

Netherlands

SZW-lijst van kankerverwekkende stoffen	: ethanol; ethyl alcohol is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: ethanol; ethyl alcohol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: ethanol; ethyl alcohol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: ethanol; ethyl alcohol is listed

Denmark

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
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Switzerland

Storage class (LK)	: LK 2 - Liquefied or pressurized gases
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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.

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Full text of H- and EUH-statements	
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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