



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: 28-10-20 Supersedes version of: 09-06-20 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 # 734334R0
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 : Disinfectant cleaner for car air-conditioning systems

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]

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

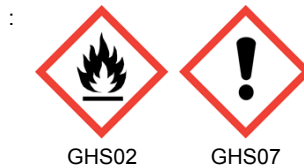
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

Extra phrases

Child-resistant fastening

Tactile warning

:
: GHS02 GHS07
: Danger
: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.
: 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 or doctor/physician.
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. — No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
: 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.
: Not applicable
: 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	(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, CH, 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 a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, CH, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE)	(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) (CH, 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 eye contact	: Causes serious eye irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : 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 : Highly flammable liquid and vapour.
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 : Highly flammable liquid and vapour.
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.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.
Storage conditions : Keep out of frost.

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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

propan-2-ol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	500 mg/m ³
MAK Daily average value (ppm)	200 ppm
MAK Short time value [mg/m ³]	2000 mg/m ³
MAK Short time value [ppm]	800 ppm
Belgium - Occupational Exposure Limits	
Local name	Alcool isopropylique # Isopropylalcohol
Limit value [mg/m ³]	500 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	1000 mg/m ³
Short time value [ppm]	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	490 mg/m ³
Grænseværdi (8 timer) (ppm)	200 ppm
Grænseværdi (STEL) (mg/m ³)	980 mg/m ³
Grænseværdi (STEL) (ppm)	400 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	500 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
OEL Ceiling (mg/m ³)	980 mg/m ³
OEL Ceiling (ppm)	400 ppm
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE [mg/m ³]	980 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

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propan-2-ol (67-63-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Hungary - Occupational Exposure Limits	
CK-érték	500 mg/m ³
MK-érték	2000 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	350 mg/m ³
OEL STEL (mg/m ³)	600 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	900 mg/m ³
NDSP (mg/m ³)	1200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	200 mg/m ³
OEL TWA (ppm)	81 ppm
OEL STEL (mg/m ³)	500 mg/m ³
OEL STEL (ppm)	203 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	500 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1000 mg/m ³
VLA-EC (ppm)	400 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
nivågränsvärde (NVG) (ppm)	200 ppm
kortidsvärde (KTV) (mg/m ³)	1000 mg/m ³
kortidsvärde (KTV) (ppm)	400 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL [ppm]	500 ppm
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	500 mg/m ³
MAK (ppm)	200 ppm
KZGW (mg/m ³)	1000 mg/m ³
KZGW (ppm)	400 ppm

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propan-2-ol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	980 mg/m ³
ACGIH TWA (ppm)	400 ppm
ACGIH STEL (mg/m ³)	1225 mg/m ³
ACGIH STEL (ppm)	500 ppm
ethanol; ethyl alcohol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	1900 mg/m ³
MAK Daily average value (ppm)	1000 ppm
MAK Short time value [mg/m ³]	3800 mg/m ³
MAK Short time value [ppm]	2000 ppm
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1000 mg/m ³
Limit value [ppm]	1907 ppm
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	1900 mg/m ³
Grænseværdi (8 timer) (ppm)	1000 ppm
Grænseværdi (STEL) (mg/m ³)	3800 mg/m ³
Grænseværdi (STEL) (ppm)	2000 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m ³
HTP-arvo (15 min) (ppm)	1300 ppm
France - Occupational Exposure Limits	
VME [mg/m ³]	1900 mg/m ³
VME [ppm]	1000 ppm
VLE [mg/m ³]	9500 mg/m ³
VLE [ppm]	5000 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	380 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Hungary - Occupational Exposure Limits	
AK-érték	1900 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (15 min ref) (ppm)	1000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	1000 mg/m ³
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³

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ethanol; ethyl alcohol (64-17-5)	
MAC C (mg/m ³)	1900 mg/m ³
MAC C (ppm)	992 ppm
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	1900 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	1900 mg/m ³
OEL TWA (ppm)	1000 ppm
OEL STEL (mg/m ³)	9500 mg/m ³
OEL STEL (ppm)	5000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	1910 mg/m ³
VLA-ED (ppm)	1000 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
nivågränsvärde (NVG) (ppm)	500 ppm
kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
kortidsvärde (KTV) (ppm)	1000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	960 mg/m ³
MAK (ppm)	500 ppm
KZGW (mg/m ³)	1920 mg/m ³
KZGW (ppm)	1000 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	1900 mg/m ³
ACGIH TWA (ppm)	1000 ppm
butanone; ethyl methyl ketone (78-93-3)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m ³)	600 mg/m ³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m ³)	900 mg/m ³
IOELV STEL (ppm)	300 ppm
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	295 mg/m ³
MAK Daily average value (ppm)	100 ppm
MAK Short time value [mg/m ³]	590 mg/m ³
MAK Short time value [ppm]	200 ppm

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butanone; ethyl methyl ketone (78-93-3)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	600 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	900 mg/m ³
Short time value [ppm]	300 ppm
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	145 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	290 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (15 min)	300 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm
France - Occupational Exposure Limits	
VME [mg/m ³]	600 mg/m ³
VME [ppm]	200 ppm
VLE [mg/m ³]	900 mg/m ³
VLE [ppm]	300 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	600 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Hungary - Occupational Exposure Limits	
AK-érték	600 mg/m ³
CK-érték	900 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	600 mg/m ³
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (mg/m ³)	900 mg/m ³
OEL (15 min ref) (ppm)	300 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	600 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	900 mg/m ³
OEL STEL (ppm)	300 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	200 mg/m ³
OEL TWA (ppm)	67 ppm
OEL STEL (mg/m ³)	900 mg/m ³
OEL STEL (ppm)	300 ppm

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butanone; ethyl methyl ketone (78-93-3)	
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	590 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	900 mg/m ³
MAC C (mg/m ³)	900 mg/m ³
MAC C (ppm)	300 ppm
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	450 mg/m ³
NDSP (mg/m ³)	900 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	600 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	900 mg/m ³
OEL STEL (ppm)	300 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	600 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	900 mg/m ³
VLA-EC (ppm)	300 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	900 mg/m ³
kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	600 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	899 mg/m ³
WEL STEL [ppm]	300 ppm
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	590 mg/m ³
MAK (ppm)	200 ppm
KZGW (mg/m ³)	590 mg/m ³
KZGW (ppm)	200 ppm
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	600 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	900 mg/m ³
OEL STEL (ppm)	300 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	590 mg/m ³

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

ACGIH TWA (ppm)	200 ppm
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(R)-p-mentha-1,8-diene (5989-27-5)

Finland - Occupational Exposure Limits

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

Germany - Occupational Exposure Limits (TRGS 900)

Occupational exposure limit value (mg/m ³)	28 mg/m ³
Occupational exposure limit value (ppm)	5 ppm

Spain - Occupational Exposure Limits

VLA-ED (mg/m ³)	168 mg/m ³
VLA-ED (ppm)	30 ppm
VLA-EC (mg/m ³)	80 mg/m ³
VLA-EC (ppm)	14 ppm

Switzerland - Occupational Exposure Limits

MAK (mg/m ³)	40 mg/m ³
MAK (ppm)	7 ppm
KZGW (mg/m ³)	80 mg/m ³
KZGW (ppm)	14 ppm

8.2. Exposure controls

Hand protection:

Gloves. EN 374

Eye protection:

Safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to cloudy.
Colour	: light yellow.
Odour	: perfumed.
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	: > 35 °C
Flash point	: 20 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
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 (20°C)
Solubility	: No data available
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
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

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

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

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

LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16,4 ml/kg
LC50 Inhalation - Rat [ppm]	> 10000 ppm (6 hours)

ethanol; ethyl alcohol (64-17-5)

LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat	124,7 mg/l 4 hours
LC50 Inhalation - Rat (Dust/Mist)	≥ 50 mg/l/4h

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

LD50 oral rat	2054 – 2328 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	> 10 mg/kg bodyweight
LC50 Inhalation - Rat	34 mg/l/4h
LC50 Inhalation - Rat [ppm]	11300 ppm/4h

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

linalool (78-70-6)

LD50 oral rat	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg

Linalyl acetate (115-95-7)

LD50 oral rat	9000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

[3R-(3α,3αβ,7β,8αα)]-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

3,7-dimethyloctan-3-ol (78-69-3)

LD50 oral rat	8270 mg/kg
LD50 dermal rabbit	> 5 g/kg

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

LD50 oral rat	4400 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

Cinnamaldehyde (104-55-2)

LD50 oral rat	2220 mg/kg
LD50 dermal rabbit	620 mg/kg

p-menthan-8-yl acetate (58985-18-5)

LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	5000 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/male, 2 years)	> 4250 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	> 4000 mg/kg bodyweight

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

ethanol; ethyl alcohol (64-17-5)

LOAEL (oral, rat)	4 mg/kg bodyweight
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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)

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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

propan-2-ol (67-63-0)	
LC50 fish 1	9640 mg/l (Pimephales promelas)
LC50 other aquatic organisms 1	> 10000 mg/l (Daphnia magna)
EC50 Daphnia 1	5102 mg/l (OCDE 202)
EC50 72h algae (1)	> 100 mg/l (Scenedesmus subspicatus)

ethanol; ethyl alcohol (64-17-5)	
LC50 fish 1	13000 mg/l LC 50 (Fish) / 96 h :
EC50 Daphnia 1	12340 mg/l EC 50 (Daphnia)/ 48 h :
EC50 other aquatic organisms 1	275 mg/l EC50 72h algae
NOEC chronic crustacea	9,6 mg/l

butanone; ethyl methyl ketone (78-93-3)	
LC50 fish 1	2990 mg/l LC50 96 h - fish [mg/l]
EC50 Daphnia 1	308 mg/l EC 50 (Daphnia)/ 48 h :
EC50 other aquatic organisms 1	1972 mg/l EC50 72h - Algae [mg/l]

4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
LC50 fish 1	8,6 mg/l
EC50 Daphnia 1	5,3 mg/l

2,6-DIMETHYL-7-OCTEN-2-OL (18479-58-8)	
LC50 fish 1	4,81 mg/l
EC50 Daphnia 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 Daphnia 1	14,2 mg/l 202 Daphnia sp. Essai d'immobilisation immédiate
EC50 72h algae (1)	22 mg/l

(R)-p-mentha-1,8-diene (5989-27-5)	
LC50 fish 1	0,8 mg/l

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EC50 Daphnia 1	69,6 mg/l
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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
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Cinnamaldehyde (104-55-2)

LC50 fish 1	> 10 mg/l
LC50 fish 2	1,67 ppm Oncorhynchus mykiss - Juvenile
EC50 Daphnia 1	7,05 ppm

12.2. Persistence and degradability

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

Biodegradation	> 98 %
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ethanol; ethyl alcohol (64-17-5)

Biodegradation	84 % (OECD 301D method)
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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
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linalool (78-70-6)

Persistence and degradability	Readily biodegradable.
Biodegradation	64,2 % 28 days - OECD 301D

Linalyl acetate (115-95-7)

Persistence and degradability	Readily biodegradable.
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[3R-(3 α ,3 β ,7 β ,8 α)]-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.
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3,7-dimethyloctan-3-ol (78-69-3)

Persistence and degradability	(OECD 301F method). Readily biodegradable.
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(R)-p-mentha-1,8-diene (5989-27-5)

Persistence and degradability	Not readily biodegradable.
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Cinnamaldehyde (104-55-2)

Persistence and degradability	(OECD 301E method). Readily biodegradable.
Biodegradation	100 % (28 days)

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12.3. Bioaccumulative potential

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

Partition coefficient n-octanol/water (Log Pow)	0,05 (25°C)
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ethanol; ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Kow)	-0,35
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butanone; ethyl methyl ketone (78-93-3)

Partition coefficient n-octanol/water (Log Kow)	0,3
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4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)

Bioconcentration factor (BCF REACH)	334,6
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Partition coefficient n-octanol/water (Log Pow)	4,8
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linalool (78-70-6)

Partition coefficient n-octanol/water (Log Pow)	2,7
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Linalyl acetate (115-95-7)

Partition coefficient n-octanol/water (Log Pow)	3,9
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[3R-(3 α ,3 β ,7 β ,8 α)]-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
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Bioaccumulative potential	High potential (3).
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3,7-dimethyloctan-3-ol (78-69-3)

Partition coefficient n-octanol/water (Log Pow)	3,3
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Bioaccumulative potential	Low potential (1).
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(R)-p-mentha-1,8-diene (5989-27-5)

Partition coefficient n-octanol/water (Log Pow)	5,3
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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
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Cinnamaldehyde (104-55-2)

Bioconcentration factor (BCF REACH)	8
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Partition coefficient n-octanol/water (Log Pow)	1,83
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12.4. Mobility in soil

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

Partition coefficient n-octanol/water (Log Koc)	3,8 Estimation
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12.5. Results of PBT and vPvB assessment

No additional information available

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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 / RID / IMDG / IATA / ADN

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
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

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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
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

Allergenic fragrances > 0,01%:

COUMARIN
Butylphenyl methylpropional
linalool

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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

15.1.2. National regulations

France

Occupational diseases : RG 65 - Lésions eczématiformes de mécanisme allergique
RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

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 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : 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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : ethanol; ethyl alcohol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : ethanol; ethyl alcohol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : ethanol; ethyl alcohol is listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

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

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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.
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.

SDS EU (REACH Annex II)

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