



READY FOR USE WINTER SUMMER SCREENWASH -20°C BARD AHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
SDS Ref.: 4520
Issue date: 01-09-15 Revision date: 07-07-20 Supersedes: 01-09-15 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : READY FOR USE WINTER SUMMER SCREENWASH -20°C BARD AHL
Product code : 4520 # 730452R9
Type of product : Detergent

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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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]

Flammable liquids, Category 3

H226

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)



GHS02

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to a hazardous or special waste collection point.

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

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	15-30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
ethylene glycol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (BE, FI, FR, IT, NL, RO, SE)	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	<1	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

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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	<0.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
isopropanol 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	<0.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate substance with national workplace exposure limit(s) (FR)	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5 (REACH-no) 01-2119475103-46	<0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

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

No additional information available

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	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

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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.
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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	: Flammable liquid and vapour.
Precautions for safe handling	: Do not eat, drink or smoke when using this product.
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	: Store in a closed container. Keep out of frost.
Heat and ignition sources	: Keep away from naked flames/heat. Keep away from ignition sources.
Storage area	: Store in a dry place. Store in a well-ventilated place.
Special rules on packaging	: Store in original container.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethylene glycol (107-21-1)	
EU - Occupational Exposure Limits	
Local name	Ethylene glycol
IOELV TWA (mg/m ³)	52 mg/m ³
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m ³)	104 mg/m ³
IOELV STEL (ppm)	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Belgium - Occupational Exposure Limits	
Local name	Ethylèneglycol (en aérosol) # Ethyleenglycol
Limit value (mg/m ³)	52 mg/m ³
Limit value (ppm)	20 ppm
Short time value (mg/m ³)	104 mg/m ³
Short time value (ppm)	40 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air, M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht, M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkprocédé moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	50 mg/m ³
HTP-arvo (8h) (ppm)	20 ppm
HTP-arvo (15 min)	100 mg/m ³
HTP-arvo (15 min) (ppm)	40 ppm
France - Occupational Exposure Limits	
Local name	Ethylèneglycol (vapeur)
VME (mg/m ³)	52 mg/m ³
VME (ppm)	20 ppm
VLE (mg/m ³)	104 mg/m ³

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VLE (ppm)	40 ppm
Note (FR)	Valeurs réglementaires indicatives; risque de pénétration percutanée
Regulatory reference	Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016)
Italy - Occupational Exposure Limits	
OEL TWA (mg/m ³)	52 mg/m ³
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m ³)	104 mg/m ³
OEL STEL (ppm)	40 ppm
Netherlands - Occupational Exposure Limits	
MAC C (mg/m ³)	104 mg/m ³
MAC C (ppm)	40 ppm
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	52 mg/m ³
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m ³)	104 mg/m ³
OEL STEL (ppm)	40 ppm
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	25 mg/m ³
nivågränsvärde (NVG) (ppm)	10 ppm
kortidsvärde (KTV) (mg/m ³)	104 mg/m ³
kortidsvärde (KTV) (ppm)	40 ppm
Turkey - Occupational Exposure Limits	
OEL TWA (mg/m ³)	52 mg/m ³
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m ³)	104 mg/m ³
OEL STEL (ppm)	40 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 (mg/m ³)	295 mg/m ³
MAK (ppm)	100 ppm
MAK Short time value (mg/m ³)	590 mg/m ³
MAK Short time value (ppm)	200 ppm
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	600 mg/m ³

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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	
Grænsevædi (8 timer) (mg/m ³)	145 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	290 mg/m ³
Grænsevædi (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
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	590 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	900 mg/m ³

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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
ACGIH TWA (ppm)	200 ppm

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ethanol; ethyl alcohol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK (mg/m ³)	1900 mg/m ³
MAK (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	
Grænsevædi (8 timer) (mg/m ³)	1900 mg/m ³
Grænsevædi (8 timer) (ppm)	1000 ppm
Grænsevædi (STEL) (mg/m ³)	3800 mg/m ³
Grænsevædi (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
CK-érték	7600 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	
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

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OEL TWA (ppm)	1000 ppm
OEL STEL (mg/m ³)	9500 mg/m ³
OEL STEL (ppm)	5000 ppm
Spain - Occupational Exposure Limits	
VLA-EC (mg/m ³)	1910 mg/m ³
VLA-EC (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)	1920 mg/m ³
ACGIH TWA (ppm)	1000 ppm

isopropanol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK (mg/m ³)	500 mg/m ³
MAK (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 11/03/2002
Denmark - Occupational Exposure Limits	
Grænsevædi (8 timer) (mg/m ³)	490 mg/m ³
Grænsevædi (8 timer) (ppm)	200 ppm
Grænsevædi (STEL) (mg/m ³)	980 mg/m ³

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Grænsevædi (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
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)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200
Hungary - Occupational Exposure Limits	
AK-érték	500 mg/m ³
CK-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)	350 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm

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kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
kortidsvärde (KTV) (ppm)	250 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
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	980 mg/m ³
ACGIH TWA (ppm)	400 ppm

Ethyl acetate (141-78-6)

France - Occupational Exposure Limits

VME (mg/m ³)	734 mg/m ³
VME (ppm)	200 ppm
VLE (mg/m ³)	1468 mg/m ³
VLE (ppm)	400 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

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.
Colour	: Green.
Odour	: Fruity.
Odour threshold	: No data available
pH	: 7,5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -20 °C
Boiling point	: No data available
Flash point	: 28 °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	: 0,955 g/cm ³ (20°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

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.

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.

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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

ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight
LD50 dermal rat	3500 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 2,5 mg/l

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 (mg/l)	34 mg/l/4h
LC50 inhalation rat (ppm)	11300 ppm/4h

ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	10470 mg/kg bodyweight
LC50 inhalation rat (mg/l)	124,7 mg/l 4 hours

isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16,4 ml/kg
LC50 inhalation rat (ppm)	> 10000 ppm (6hours)

trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate (1934-21-0)	
LD50 oral rat	> 2000 mg/kg

Alcohols, secondary C11-15, ethoxylated (68131-40-8)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Resin acids and Rosin acids, hydrogenated, Me esters (8050-15-5)	
LD50 oral rat	> 2000 mg/kg

4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
LD50 oral rat	3550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Undecan-4-olide (104-67-6)	
LD50 oral rat	18500 mg/kg

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LD50 dermal rabbit	> 2000 mg/kg
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3-p-cumenyl-2-methylpropionaldehyde (103-95-7)

LD50 oral rat	3810 mg/kg
LD50 dermal rat	> 5 g/kg

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)

LD50 oral rat	> 4640 mg/kg
LD50 dermal rat	> 5 g/kg

Skin corrosion/irritation	: Not classified pH: 7,5
Serious eye damage/irritation	: Not classified pH: 7,5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

ethylene glycol (107-21-1)

NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1000 mg/kg bodyweight

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

ethylene glycol (107-21-1)

NOAEL (oral, rat)	200 mg/kg bodyweight
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ethanol; ethyl alcohol (64-17-5)

LOAEL (oral, rat)	4 mg/kg bodyweight
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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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

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ethylene glycol (107-21-1)	
LC50 fish 1	72860 mg/l
EC50 Daphnia 1	> 100 mg/l
EC50 other aquatic organisms 1	> 6500 mg/l
NOEC chronic fish	15380 mg/l
NOEC chronic algae	8590 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]

ethanol; ethyl alcohol (64-17-5)	
LC50 fish 1	15300 mg/l LC 50 (Fish) / 96 h :
EC50 Daphnia 1	> 10000 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

isopropanol (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)

Resin acids and Rosin acids, hydrogenated, Me esters (8050-15-5)	
LC50 fish 1	1000 mg/l
EC50 Daphnia 1	27 mg/l
EC50 72h algae (1)	> 1000 mg/l

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

Undecan-4-olide (104-67-6)	
LC50 fish 1	5,5 mg/l
EC50 Daphnia 1	5,85 mg/l

3-p-cumenyl-2-methylpropionaldehyde (103-95-7)	
EC50 Daphnia 1	4,19 mg/l

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	
EC50 Daphnia 1	0,9 mg/l

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NOEC chronic fish	0,068 mg/l 36 days
NOEC chronic crustacea	0,111 mg/l 21 days

12.2. Persistence and degradability

ethylene glycol (107-21-1)	
Biodegradation	90 % (OECD 301D method)

butanone; ethyl methyl ketone (78-93-3)	
Biodegradation	98 % (OECD 301D method)

ethanol; ethyl alcohol (64-17-5)	
Biodegradation	84 % (OECD 301D method)

isopropanol (67-63-0)	
Biodegradation	> 98 %

Resin acids and Rosin acids, hydrogenated, Me esters (8050-15-5)	
Biodegradation	43 % OECD302C

4-TERT-BUTYLCYCLOHEXYL ACETATE (32210-23-4)	
Biodegradation	75 % OECD 301B

3-p-cumenyl-2-methylpropionaldehyde (103-95-7)	
Biodegradation	66 % OECD301B

Ethyl acetate (141-78-6)	
Persistence and degradability	100 % biodegradation 28d.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	
Biodegradation	2 % OECD 301F

12.3. Bioaccumulative potential

ethylene glycol (107-21-1)	
Partition coefficient n-octanol/water (Log Kow)	-1,36

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

ethanol; ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water (Log Kow)	-0,35

isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0,05 (25°C)

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Resin acids and Rosin acids, hydrogenated, Me esters (8050-15-5)

Bioconcentration factor (BCF REACH)	129
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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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3-p-cumenyl-2-methylpropionaldehyde (103-95-7)

Partition coefficient n-octanol/water (Log Pow)	3,4
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1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)

Bioconcentration factor (BCF REACH)	2507
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Partition coefficient n-octanol/water (Log Pow)	5,3
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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

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.
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.

SECTION 14: Transport information





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

ADR	IMDG	IATA	RID
14.1. UN number			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.

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Transport document description			
UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS : ethanol; ethyl alcohol), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS : ethanol; ethyl alcohol), 3, III	UN 1993 Flammable liquid, n.o.s. (CONTAINS : ethanol; ethyl alcohol), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS : ethanol; ethyl alcohol), 3, III
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packing group			
III	III	III	III
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)	: F1
Special provisions (ADR)	: 274, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	: 

Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

Transport by sea

Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

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Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

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

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

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

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15.1.2. National regulations

France

Occupational diseases : RG 4 BIS - Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant
RG 49 - Affections cutanées provoquées par les amines aliphatiques, alicycliques ou les éthanolamines
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 1, Slightly 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 II-1

Store unit : 5 liter

Classification remarks : R10 <H226>; 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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

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.