GLASS CLEANER

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 38910B
Issue date: 26-11-18 Revision date: 14-01-26 Supersedes version of: 07-04-23 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Product name : GLASS CLEANER
UFI : V821-HAK0-1WD6-DVKR
Product code : 38910B # 7303891BVR2
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 BARDAHL 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.be

Supplier
SADAPS BARDAHL Additives & Lubricants
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7522 TOURNAI
BELGIQUE
T +32 (0).69.59.03.60, F +32 (0).69.59.03.61
msds@bardahlfrance.com, www.bardahl.be

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 Msida MSD 2090 Msida	112 +356 2545 6508	
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	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

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- and EUH-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

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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 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	10 - 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol substance with national workplace exposure limit(s) (BE, NL)	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-36	<3	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=3 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319

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- and EUH-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.

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 : 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

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/m³
	1000 ppm
MAK (OEL STEL)	3800 mg/m³
	2000 ppm

ethanol; ethyl alcohol (64-17-5)	
Belgium - Occupational Exposure Limits	
OEL TWA	1000 mg/m³
	1907 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	1900 mg/m³
	1000 ppm
Korttidsgrænseværdi (OEL STEL)	3800 mg/m³
	2000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	1900 mg/m³
	1000 ppm
HTP (OEL STEL)	2500 mg/m³
	1300 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	1900 mg/m³
	1000 ppm
VLEP CT (OEL STEL)	9500 mg/m³
	5000 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	380 mg/m³
	200 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1900 mg/m³
Ireland - Occupational Exposure Limits	
OEL STEL	1000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	1000 mg/m³
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	260 mg/m³
	136 ppm
TGG-C (OEL C)	1900 mg/m³
	992 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1900 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	1900 mg/m³
	1000 ppm
OEL STEL	9500 mg/m³
	5000 ppm

ethanol; ethyl alcohol (64-17-5)	
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	1910 mg/m³
	1000 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1000 mg/m³
	500 ppm
KGV (OEL STEL)	1900 mg/m³
	1000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	1920 mg/m³
	1000 ppm
WEL STEL (OEL STEL)*	5760 mg/m³
	3000 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	960 mg/m³
	500 ppm
KZGW (OEL STEL)	1920 mg/m³
	1000 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	1900 mg/m³
	1000 ppm

ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m³
	20 ppm
IOEL STEL	104 mg/m³
	40 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Belgium - Occupational Exposure Limits	
Local name	Ethylèneglycol (en aérosol) # Ethyleenglycol
OEL TWA	52 mg/m³
	20 ppm
OEL STEL	104 mg/m³
	40 ppm

ethylene glycol (107-21-1)	
Remark	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 21/01/2020
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	50 mg/m³
	20 ppm
HTP (OEL STEL)	100 mg/m³
	40 ppm
France - Occupational Exposure Limits	
Local name	Ethylèneglycol (vapeur)
VLEP 8h (OEL TWA)	52 mg/m³
	20 ppm
VLEP CT (OEL STEL)	104 mg/m³
	40 ppm
Remark	Valeurs règlementaires indicatives; risque de pénétration percutanée
Regulatory reference	Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016)
Italy - Occupational Exposure Limits	
OEL TWA	52 mg/m³
	20 ppm
OEL STEL	104 mg/m³
	40 ppm
Netherlands - Occupational Exposure Limits	
TGG-C (OEL C)	104 mg/m³
	40 ppm
Romania - Occupational Exposure Limits	
OEL TWA	52 mg/m³
	20 ppm
OEL STEL	104 mg/m³
	40 ppm

ethylene glycol (107-21-1)	
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	25 mg/m³
	10 ppm
KGV (OEL STEL)	104 mg/m³
	40 ppm

butanone; ethyl methyl ketone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	600 mg/m³
	200 ppm
IOEL STEL	900 mg/m³
	300 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	295 mg/m³
	100 ppm
MAK (OEL STEL)	590 mg/m³
	200 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	145 mg/m³
	50 ppm
Korttidsgrænseværdi (OEL STEL)	290 mg/m³
	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL STEL)	300 mg/m³
	100 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	600 mg/m³
	200 ppm
VLEP CT (OEL STEL)	900 mg/m³
	300 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	600 mg/m³
	200 ppm
Germany - Biological limit values (TRGS 903)	
Biological limit value	2 mg/l

butanone; ethyl methyl ketone (78-93-3)	
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	600 mg/m³
CK (OEL STEL)	900 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Italy - Occupational Exposure Limits	
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	200 mg/m³
	67 ppm
OEL STEL	900 mg/m³
	300 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	590 mg/m³
	197 ppm
TGG-15min (OEL STEL)	900 mg/m³
TGG-C (OEL C)	900 mg/m³
	300 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	450 mg/m³
NDSP (OEL C)	900 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	600 mg/m³
	200 ppm
VLA-EC (OEL STEL)	900 mg/m³
	300 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m³

butanone; ethyl methyl ketone (78-93-3)	
	50 ppm
KGV (OEL STEL)	900 mg/m³
	300 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	600 mg/m³
	200 ppm
WEL STEL (OEL STEL)	899 mg/m³
	300 ppm
United Kingdom - Biological limit values	
BMGV	70 µmol/l
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	590 mg/m³
	200 ppm
KZGW (OEL STEL)	590 mg/m³
	200 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	590 mg/m³
	200 ppm

propan-2-ol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	500 mg/m³
	200 ppm
MAK (OEL STEL)	2000 mg/m³
	800 ppm
Belgium - Occupational Exposure Limits	
Local name	Alcool isopropylique # Isopropylalcohol
OEL TWA	500 mg/m³
	200 ppm
OEL STEL	1000 mg/m³
	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	490 mg/m³
	200 ppm
Korttidsgrænseværdi (OEL STEL)	980 mg/m³
	400 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	500 mg/m³
	200 ppm

propan-2-ol (67-63-0)	
HTP (OEL STEL)	620 mg/m³
	250 ppm
HTP (OEL C)	980 mg/m³
	400 ppm
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLEP CT (OEL STEL)	980 mg/m³
	400 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	500 mg/m³
	200 ppm
Hungary - Occupational Exposure Limits	
CK (OEL STEL)	500 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	200 ppm
OEL STEL	400 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	350 mg/m³
OEL STEL	600 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	900 mg/m³
NDSP (OEL C)	1200 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	200 mg/m³
	81 ppm
OEL STEL	500 mg/m³
	203 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	500 mg/m³
	200 ppm
VLA-EC (OEL STEL)	1000 mg/m³
	400 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	500 mg/m³
	200 ppm
KGV (OEL STEL)	1000 mg/m³
	400 ppm

propan-2-ol (67-63-0)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	999 mg/m³
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
	500 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	500 mg/m³
	200 ppm
KZGW (OEL STEL)	1000 mg/m³
	400 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	980 mg/m³
	400 ppm
ACGIH® TLV® STEL	1225 mg/m³
	500 ppm

2-butoxyethanol (111-76-2)	
Belgium - Occupational Exposure Limits	
OEL TWA	98 mg/m³
	20 ppm
OEL STEL	246 mg/m³
	50 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	100 mg/m³
	20,4 ppm
TGG-15min (OEL STEL)	246 mg/m³
	50 ppm

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. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Gloves. ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:
Good ventilation of the workplace required

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
Colour	:	Blue.
Appearance	:	clear.
Odour	:	Fruity.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	42 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	6 – 8
Viscosity, kinematic	:	< 20,5 mm²/s
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	0,97 – 0,98 g/cm³
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

D15003 CHROMATINT BLUE AZ 50%	
LD50 oral rat	> 2000 mg/kg bodyweight

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

ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight
LD50 oral	1600 mg/kg
LD50 dermal rat	> 3500 mg/kg bodyweight
LC50 Inhalation - Rat	> 2,5 mg/l

butanone; ethyl methyl ketone (78-93-3)	
LD50 oral rat	2193 mg/kg
LD50 dermal rabbit	> 10 ml/kg

2-butoxyethanol (111-76-2)	
LD50 oral	1200 mg/kg Guinea pig
LD50 dermal	> 2000 mg/kg Guinea pig
LC50 Inhalation - Rat (Vapours)	3 mg/l/4h

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LD50 oral rat	> 2000 mg/kg OECD 423
LD50 dermal rabbit	> 2000 mg/kg

2,6-dimethyloct-7-en-2-ol (18479-58-8)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5 g/kg

4-(2,6,6-trimethylcyclohex-2-ene-1-yl)-but-3-ene-2-one (127-41-3)	
LD50 oral rat	4590 mg/kg

Ethyl 2,3-epoxy-3-phenylbutyrate (77-83-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

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

2-ETHYL-3-HYDROXY-4-PYRONE (4940-11-8)	
LD50 oral rat	1150 mg/kg
LD50 dermal rabbit	> 5 g/kg

linalool (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg

ETHYL VANILLIN (121-32-4)	
LD50 oral rat	> 3160 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one (71048-82-3)	
LD50 oral	1400 mg/kg Souris
LD50 dermal rabbit	> 5000 mg/kg

(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one (79-77-6)	
LD50 oral rat	> 4590 ml/kg
LD50 dermal rat	> 2000 mg/kg

(E)-anethole (4180-23-8)	
LD50 oral rat	2090 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

2,4-dimethylcyclohex-3-ene-1-carbaldehyde (68039-49-6)	
LD50 oral rat	> 3100 mg/kg
LD50 dermal rabbit	5000

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

Skin corrosion/irritation : Not classified
pH: 6 – 8

D15003 CHROMATINT BLUE AZ 50%	
pH	5,5 – 8,5

WATER (7732-18-5)	
pH	5,5 – 7,5

Water (7732-18-5)	
pH	7

Serious eye damage/irritation : Not classified
pH: 6 – 8

D15003 CHROMATINT BLUE AZ 50%	
pH	5,5 – 8,5

WATER (7732-18-5)	
pH	5,5 – 7,5

Water (7732-18-5)	
pH	7

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)	> 3000 mg/kg bodyweight

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

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

ethylene glycol (107-21-1)	
NOAEL (oral, rat)	200 mg/kg bodyweight

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.

propan-2-ol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
NOAEL (oral, rat)	100 mg/kg bodyweight 90 days

STOT-repeated exposure : Not classified

ethylene glycol (107-21-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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

GLASS CLEANER	
Viscosity, kinematic	< 20,5 mm²/s

11.2. Information on other hazards

No additional information available

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 :
EC50 - Crustacea [1]	5012 mg/l
ErC50 algae	275 mg/l
ErC50 other aquatic plants	275 mg/l
NOEC chronic crustacea	9,6 mg/l

ethylene glycol (107-21-1)	
LC50 - Fish [1]	72860 mg/l (Pimephales promelas)
EC50 - Crustacea [1]	> 100 mg/l (Daphnia magna)
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]	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

2-butoxyethanol (111-76-2)	
LC50 - Fish [1]	> 100 mg/l (OCDE N° 203)Rainbow trout
EC50 - Crustacea [1]	> 100 mg/l (OCDE N°202)Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 100 mg/l (OCDE N° 201) Pseudokirchneriella subcapitata
NOEC chronic fish	> 100 mg/l (OCDE N° 204)Brachydanio rerio (zebra-fish)
NOEC chronic crustacea	100 mg/l (OCDE N°211) Daphnia magna (Water flea)

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LC50 - Fish [1]	100,81 mg/l Danio rerio
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna
EC50 72h - Algae [1]	27,22 mg/l Scenedesmus subspicatus

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran (1222-05-5)	
EC50 - Crustacea [1]	0,9 mg/l
NOEC chronic fish	36 days
NOEC chronic crustacea	0,111 mg/l 21 days

2,6-dimethyloct-7-en-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

Ethyl 2,3-epoxy-3-phenylbutyrate (77-83-8)	
EC50 - Crustacea [1]	52 mg/l

Undecan-4-olide (104-67-6)	
LC50 - Fish [1]	5,5 mg/l
EC50 - Crustacea [1]	5,85 mg/l

2-ETHYL-3-HYDROXY-4-PYRONE (4940-11-8)	
EC50 - Crustacea [1]	27 mg/l

linalool (78-70-6)	
LC50 - Fish [1]	27,8 mg/l
EC50 72h - Algae [1]	156,7 mg/l

ETHYL VANILLIN (121-32-4)	
LC50 - Fish [1]	87600 µg/l
EC50 - Crustacea [1]	130 mg/l

[1α(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one (71048-82-3)	
LC50 - Fish [1]	0,977 mg/l

12.2. Persistence and degradability

ethanol; ethyl alcohol (64-17-5)	
Biodegradation	84 %

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

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

propan-2-ol (67-63-0)	
Biodegradation	> 98 %

2-butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable.

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Persistence and degradability	Readily biodegradable.

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

2-ETHYL-3-HYDROXY-4-PYRONE (4940-11-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % (OECD 301D - 28 days)

linalool (78-70-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	64,2 % 28 days - OECD 301D

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

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 40°C

propan-2-ol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0,05 (25°C)

2-butoxyethanol (111-76-2)	
Partition coefficient n-octanol/water (Log Kow)	0,81 (20 °C)
Bioaccumulative potential	not bioaccumulable.

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Partition coefficient n-octanol/water (Log Pow)	< 1,77

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

2-ETHYL-3-HYDROXY-4-PYRONE (4940-11-8)	
Partition coefficient n-octanol/water (Log Pow)	0,63

linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2,7

12.4. Mobility in soil

ethanol; ethyl alcohol (64-17-5)	
Mobility in soil	0

butanone; ethyl methyl ketone (78-93-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,53 Estimation

2-butoxyethanol (111-76-2)	
Surface tension	65 mN/m (20 °C)
Ecology - soil	In water, material soluble.

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Surface tension	29 mN/m (DIN EN 14370)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. 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.

Ecological waste information : Do not discharge the product into the environment.

SECTION 14: Transport information

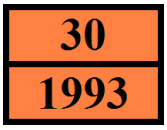
In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID 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.

ADR	IMDG	IATA	RID
Transport document description			
UN 1993 FLAMMABLE LIQUID, N.O.S. (contains : ethanol; ethyl alcohol ; butanone; ethyl methyl ketone ; propan-2-ol 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)	:	5l
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	:	•3Y

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

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. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Detergent Regulation (EC 648/2004)

Labelling of contents	
Component	**%**
perfumes	

Seveso Directive (Disaster Risk Reduction)

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

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Austria

Ordinance on Flammable Liquids (VbF) : Auto detect

France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism
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 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Override matching entry (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

SZW List of Carcinogenic Substances : ethanol; ethyl alcohol is listed
SZW List of Mutagenic Substances : None of the components are listed
SZW List of Reprotoxic Substances – Breastfeeding : ethanol; ethyl alcohol is listed
SZW List of Reprotoxic Substances – Fertility : ethanol; ethyl alcohol is listed
SZW List of Reprotoxic Substances – Development : 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	:	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 it. If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

Switzerland

Storage class (LK)	:	LK 3 - Flammable liquids

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
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
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

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.