

SERVICE BEST B.V. De Schakel 60 5651 GH EINDHOVEN The Netherlands Phone: +31 40 230 23 00 Fax: +31 40 230 23 02 E-mail: info@servicebest.com	SAFETY DATA SHEET		Page : 1 / 30
			Revision nr : 5.0
	Protecton Screenwash Ready to use winter -20 1890917 5L		Issue date : 03/11/2023
			Supersedes : 15/09/2021

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

1.1. Product identifier

Product form : Mixture
 Trade name : Protecton Screenwash Ready to use winter -20
 Product group : Trade product
 UFI : HF10-6049-P00J-X34A

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 : Industrial use, Professional use, Consumer use
 Use of the substance/mixture : Anti-Freeze and De-icing products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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 De Schakel 60
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1.4. Emergency telephone number

Emergency telephone : BELGIE/BELGIQUE/LUXEMBURG/LUXEMBOURG
 Centre Anti-Poisons/Antigifcentrum/Giftnotrufzentrale
 c/o Hôpital Central de la Base - Reine Astrid
 +32 70 245 245

 NETHERLANDS
 Nationaal Vergiftigingen Informatie Centrum (NVIC)
 NB Uitsluitend bestemd om professionele hulpverleners te informeren bij
 acute vergiftigingen
 +31 30 274 88 88

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226

Eye Irrit. 2 H319

Full text of H- and EUH-statements: see section 16

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word

: Warning

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
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.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents and container to an approved waste disposal plant.

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

Other hazards

: Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Contains no PBT/vPvB substances $\geq 0.1\%$ 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 is 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

Substance 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) 603-002-00-5 (REACH-no) 01-2119457610-43-XXXX	< 62	Flam. Liq. 2, H225 Eye Irrit. 2, H319

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ethanediol; ethylene glycol substance with a Community workplace exposure limit	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index) 603-027-00-1 (REACH-no) 01-2119456816-28-XXXX	> 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Butanone substance with a Community workplace exposure limit	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index) 606-002-00-3 (REACH-no) 01-2119457290-43-0010	0,33 – 1,36	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index) 603-117-00-0 (REACH-no) 01-2119457558-25-XXXX	0,33 – 1,36	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index) 603-002-00-5 (REACH-no) 01-2119457610-43-XXXX	(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

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. The following symptoms may occur: Irritating to respiratory system.
Skin contact	: The following symptoms may occur: Irritation.
Eyes contact	: Causes serious eye irritation. The following symptoms may occur: Redness, Pain.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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 (CO2), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

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5.2. Special hazards arising from the substance or mixture

Specific hazards : Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. . In case of fire: Wear self-contained breathing apparatus. Evacuate personnel to a safe area. Use water spray or fog for cooling exposed containers. Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). After use replace the closing cap immediately. Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep out of reach of children.

Storage conditions : Storage of flammable liquids. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Incompatible materials : Strong acids and oxidizing agents.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

Reference to other sections : 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol; ethyl alcohol (64-17-5)		
Austria	MAK (OEL TWA)	1900 mg/m ³
Austria	MAK (OEL TWA) [ppm]	1000 ppm
Austria	MAK (OEL STEL)	3800 mg/m ³
Austria	MAK (OEL STEL) [ppm]	2000 ppm
Belgium	OEL TWA	1907 mg/m ³
Belgium	OEL TWA [ppm]	1000 ppm
Bulgaria	OEL TWA	1000 mg/m ³
Croatia	GVI (OEL TWA) [1]	1900 mg/m ³
Croatia	GVI (OEL TWA) [2]	1000 ppm
Czech Republic	PEL (OEL TWA)	1000 mg/m ³
Denmark	OEL TWA [1]	1900 mg/m ³
Denmark	OEL TWA [2]	1000 ppm

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ethanol; ethyl alcohol (64-17-5)		
Denmark	OEL STEL	3800 mg/m ³
Denmark	OEL STEL [ppm]	2000 ppm
Estonia	OEL TWA	1000 mg/m ³
Estonia	OEL TWA [ppm]	500 ppm
Estonia	OEL STEL	1900 mg/m ³
Estonia	OEL STEL [ppm]	1000 ppm
Finland	HTP (OEL TWA) [1]	1900 mg/m ³
Finland	HTP (OEL TWA) [2]	1000 ppm
Finland	HTP (OEL STEL)	2500 mg/m ³
Finland	HTP (OEL STEL) [ppm]	1300 ppm
France	VME (OEL TWA)	1900 mg/m ³
France	VME (OEL TWA) [ppm]	1000 ppm
France	VLE (OEL C/STEL)	9500 mg/m ³
France	VLE (OEL C/STEL) [ppm]	5000 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	380 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA	1900 mg/m ³
Greece	OEL TWA [ppm]	1000 ppm
Hungary	AK (OEL TWA)	1900 mg/m ³
Hungary	CK (OEL STEL)	3800 mg/m ³
Ireland	OEL STEL [ppm]	1000 ppm
Latvia	OEL TWA	1000 mg/m ³
Lithuania	IPRV (OEL TWA)	1000 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	500 ppm
Lithuania	TPRV (OEL STEL)	1900 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	1000 ppm
Netherlands	TGG-8u (OEL TWA)	260 mg/m ³
Netherlands	TGG-8u (OEL TWA) [ppm]	137 ppm
Netherlands	TGG-15min (OEL STEL)	1900 mg/m ³
Netherlands	TGG-15min (OEL STEL) [ppm]	1000 ppm
Poland	NDS (OEL TWA)	1900 mg/m ³
Portugal	OEL STEL [ppm]	1000 ppm
Romania	OEL TWA	1900 mg/m ³
Romania	OEL TWA [ppm]	1000 ppm
Romania	OEL STEL	9500 mg/m ³
Romania	OEL STEL [ppm]	5000 ppm
Slovakia	NPHV (OEL TWA) [1]	960 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	500 ppm

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ethanol; ethyl alcohol (64-17-5)		
Slovakia	NPHV (OEL C)	1920 mg/m ³
Slovenia	OEL TWA	960 mg/m ³
Slovenia	OEL TWA [ppm]	500 ppm
Slovenia	OEL STEL	1920 mg/m ³
Slovenia	OEL STEL [ppm]	1000 ppm
Spain	VLA-EC (OEL STEL)	1910 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	1000 ppm
Sweden	NGV (OEL TWA)	1000 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	500 ppm
Sweden	KTV (OEL STEL)	1900 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	1000 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	1920 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	1000 ppm
United Kingdom	WEL STEL (OEL STEL)	5760 mg/m ³ (calculated)
United Kingdom	WEL STEL (OEL STEL) [ppm]	3000 ppm (calculated)
Norway	Grenseverdi (OEL TWA) [1]	950 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	500 ppm
Norway	Korttidsverdi (OEL STEL)	1187,5 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	625 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	960 mg/m ³
Switzerland	MAK (OEL TWA) [2]	500 ppm
Switzerland	KZGW (OEL STEL)	1920 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	1000 ppm
Australia	OES TWA [1]	1880 mg/m ³
Australia	OES TWA [2]	1000 ppm
Canada (Quebec)	VECD (OEL STEL) [ppm]	1000 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	1000 ppm
USA - IDLH	IDLH [ppm]	3300 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	1900 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	1000 ppm
USA - OSHA	OSHA PEL TWA [1]	1900 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	1000 ppm
ethanediol; ethylene glycol (107-21-1)		
EU	IOEL TWA	52 mg/m ³
EU	IOEL TWA [ppm]	20 ppm
EU	IOEL STEL	104 mg/m ³
EU	IOEL STEL [ppm]	40 ppm
EU	Remark	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	26 mg/m ³
Austria	MAK (OEL TWA) [ppm]	10 ppm
Austria	MAK (OEL STEL)	52 mg/m ³

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ethanediol; ethylene glycol (107-21-1)		
Austria	MAK (OEL STEL) [ppm]	20 ppm
Belgium	OEL TWA	52 mg/m ³ (aerosol)
Belgium	OEL TWA [ppm]	20 ppm (aerosol)
Belgium	OEL STEL	104 mg/m ³ (aerosol)
Belgium	OEL STEL [ppm]	40 ppm (aerosol)
Bulgaria	OEL TWA	52 mg/m ³
Bulgaria	OEL TWA [ppm]	20 ppm
Bulgaria	OEL STEL	104 mg/m ³
Bulgaria	OEL STEL [ppm]	40 ppm
Croatia	GVI (OEL TWA) [1]	52 mg/m ³
Croatia	GVI (OEL TWA) [2]	20 ppm
Croatia	KGVI (OEL STEL)	104 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	40 ppm
Cyprus	OEL TWA	52 mg/m ³
Cyprus	OEL TWA [ppm]	20 ppm
Cyprus	OEL STEL	104 mg/m ³
Cyprus	OEL STEL [ppm]	40 ppm
Czech Republic	PEL (OEL TWA)	50 mg/m ³
Denmark	OEL TWA [1]	26 mg/m ³ 10 mg/m ³ (atomized)
Denmark	OEL TWA [2]	10 ppm
Denmark	OEL STEL	104 mg/m ³ 20 mg/m ³ (atomized)
Denmark	OEL STEL [ppm]	40 ppm
Estonia	OEL TWA	52 mg/m ³ (total concentration of aerosol and vapor)
Estonia	OEL TWA [ppm]	20 ppm (total concentration of aerosol and vapor)
Estonia	OEL STEL	104 mg/m ³ (total concentration of aerosol and vapor)
Estonia	OEL STEL [ppm]	40 ppm (total concentration of aerosol and vapor)
Finland	HTP (OEL TWA) [1]	50 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	100 mg/m ³
Finland	HTP (OEL STEL) [ppm]	40 ppm
France	VME (OEL TWA)	52 mg/m ³ (indicative limit-vapor)
France	VME (OEL TWA) [ppm]	20 ppm (indicative limit-vapor)
France	VLE (OEL C/STEL)	104 mg/m ³ (indicative limit-vapor)
France	VLE (OEL C/STEL) [ppm]	40 ppm (indicative limit-vapor)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	26 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

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ethanediol; ethylene glycol (107-21-1)		
Germany	Occupational exposure limit value (ppm) (TRGS900)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA	52 mg/m ³
Gibraltar	OEL TWA [ppm]	20 ppm
Gibraltar	OEL STEL	104 mg/m ³
Gibraltar	OEL STEL [ppm]	40 ppm
Greece	OEL TWA	125 mg/m ³ (vapor)
Greece	OEL TWA [ppm]	50 ppm (vapor)
Greece	OEL STEL	125 mg/m ³ (vapor)
Greece	OEL STEL [ppm]	50 ppm (vapor)
Hungary	AK (OEL TWA)	52 mg/m ³
Hungary	CK (OEL STEL)	104 mg/m ³
Ireland	OEL TWA [1]	52 mg/m ³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	104 mg/m ³
Ireland	OEL STEL [ppm]	40 ppm
Italy	OEL TWA	52 mg/m ³
Italy	OEL TWA [ppm]	20 ppm
Italy	OEL STEL	104 mg/m ³
Italy	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	52 mg/m ³
Latvia	OEL TWA [ppm]	20 ppm
Lithuania	IPRV (OEL TWA)	25 mg/m ³ (aerosol and vapor)
Lithuania	IPRV (OEL TWA) [ppm]	10 ppm (aerosol and vapor)
Lithuania	TPRV (OEL STEL)	50 mg/m ³ (aerosol and vapor)
Lithuania	TPRV (OEL STEL) [ppm]	20 ppm (aerosol and vapor)
Luxembourg	OEL TWA	52 mg/m ³
Luxembourg	OEL TWA [ppm]	20 ppm
Luxembourg	OEL STEL	104 mg/m ³
Luxembourg	OEL STEL [ppm]	40 ppm
Malta	OEL TWA	52 mg/m ³
Malta	OEL TWA [ppm]	20 ppm
Malta	OEL STEL	104 mg/m ³
Malta	OEL STEL [ppm]	40 ppm
Netherlands	TGG-8u (OEL TWA)	52 mg/m ³ (fume) 10 mg/m ³ (droplets)
Netherlands	TGG-15min (OEL STEL)	104 mg/m ³ (fume)
Netherlands	TGG-15min (OEL STEL) [ppm]	40 ppm (fume)
Poland	NDS (OEL TWA)	15 mg/m ³
Poland	NDSch (OEL STEL)	50 mg/m ³

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ethanediol; ethylene glycol (107-21-1)		
Portugal	OEL TWA	52 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	20 ppm (indicative limit value)
Portugal	OEL STEL	104 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	40 ppm (indicative limit value)
Portugal	OEL C	100 mg/m ³ (aerosol only)
Romania	OEL TWA	52 mg/m ³
Romania	OEL TWA [ppm]	20 ppm
Romania	OEL STEL	104 mg/m ³
Romania	OEL STEL [ppm]	40 ppm
Slovakia	NPHV (OEL TWA) [1]	52 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	104 mg/m ³
Slovenia	OEL TWA	52 mg/m ³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	104 mg/m ³
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	52 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	104 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	25 mg/m ³ (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	NGV (OEL TWA) [ppm]	10 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	KTV (OEL STEL)	104 mg/m ³ (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	KTV (OEL STEL) [ppm]	40 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m ³ (particulates) 52 mg/m ³ (vapour)
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm (vapour)
United Kingdom	WEL STEL (OEL STEL)	104 mg/m ³ (vapour) 30 mg/m ³ (calculated-particulate)
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm (vapour)
Norway	Grenseverdi (OEL TWA) [1]	52 mg/m ³ (total sum of gas and particulate matter (aerosol) of the substance)
Norway	Grenseverdi (OEL TWA) [2]	20 ppm (total sum of gas and particulate matter (aerosol) of the substance)
Norway	Korttidsverdi (OEL STEL)	104 mg/m ³ (total sum of gas and particulate matter (aerosol) of the substance)

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ethanediol; ethylene glycol (107-21-1)		
Norway	Korttidsverdi (OEL STEL) [ppm]	40 ppm (total sum of gas and particulate matter (aerosol) of the substance)
Switzerland	MAK (OEL TWA) [1]	26 mg/m ³ (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	52 mg/m ³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	20 ppm (aerosol, vapour)
Australia	OES TWA [1]	10 mg/m ³ (particulate) 52 mg/m ³ (vapour)
Australia	OES TWA [2]	20 ppm (vapour)
Australia	OES STEL	104 mg/m ³ (vapour)
Australia	OES STEL [ppm]	40 ppm (vapour)
Canada (Quebec)	Plafond (OEL C)	127 mg/m ³ (mist and vapour)
Canada (Quebec)	Plafond (OEL C) [ppm]	50 ppm (mist and vapour)
USA - ACGIH	ACGIH OEL TWA [ppm]	25 ppm (vapor fraction)
USA - ACGIH	ACGIH OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
USA - ACGIH	ACGIH OEL STEL [ppm]	50 ppm (vapor fraction)
Butanone (78-93-3)		
EU	IOEL TWA	600 mg/m ³
EU	IOEL TWA [ppm]	200 ppm
EU	IOEL STEL	900 mg/m ³
EU	IOEL STEL [ppm]	300 ppm
Austria	MAK (OEL TWA)	295 mg/m ³
Austria	MAK (OEL TWA) [ppm]	100 ppm
Austria	MAK (OEL STEL)	590 mg/m ³ (Butanone)
Austria	MAK (OEL STEL) [ppm]	200 ppm (Butanone)
Belgium	OEL TWA	600 mg/m ³
Belgium	OEL TWA [ppm]	200 ppm
Belgium	OEL STEL	900 mg/m ³
Belgium	OEL STEL [ppm]	300 ppm
Bulgaria	OEL TWA	590 mg/m ³
Bulgaria	OEL STEL	885 mg/m ³
Croatia	GVI (OEL TWA) [1]	600 mg/m ³
Croatia	GVI (OEL TWA) [2]	200 ppm
Croatia	KGVI (OEL STEL)	900 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	300 ppm
Cyprus	OEL TWA	600 mg/m ³
Cyprus	OEL TWA [ppm]	200 ppm
Cyprus	OEL STEL	900 mg/m ³
Cyprus	OEL STEL [ppm]	300 ppm
Czech Republic	PEL (OEL TWA)	600 mg/m ³
Denmark	OEL TWA [1]	145 mg/m ³
Denmark	OEL TWA [2]	50 ppm
Denmark	OEL STEL	900 mg/m ³
Denmark	OEL STEL [ppm]	300 ppm

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Butanone (78-93-3)		
Estonia	OEL TWA	600 mg/m ³
Estonia	OEL TWA [ppm]	200 ppm
Estonia	OEL STEL	900 mg/m ³
Estonia	OEL STEL [ppm]	300 ppm
Finland	HTP (OEL TWA) [1]	60 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	300 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	600 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	200 ppm (restrictive limit)
France	VLE (OEL C/STEL)	900 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	300 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	600 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Biological limit value	2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift
Gibraltar	OEL TWA	600 mg/m ³
Gibraltar	OEL TWA [ppm]	200 ppm
Gibraltar	OEL STEL	900 mg/m ³
Gibraltar	OEL STEL [ppm]	300 ppm
Greece	OEL TWA	600 mg/m ³
Greece	OEL TWA [ppm]	200 ppm
Greece	OEL STEL	900 mg/m ³
Greece	OEL STEL [ppm]	300 ppm
Hungary	AK (OEL TWA)	600 mg/m ³
Hungary	CK (OEL STEL)	900 mg/m ³
Ireland	OEL TWA [1]	600 mg/m ³
Ireland	OEL TWA [2]	200 ppm
Ireland	OEL STEL	900 mg/m ³
Ireland	OEL STEL [ppm]	300 ppm
Italy	OEL TWA	600 mg/m ³
Italy	OEL TWA [ppm]	200 ppm
Italy	OEL STEL	900 mg/m ³
Italy	OEL STEL [ppm]	300 ppm
Latvia	OEL TWA	200 mg/m ³
Latvia	OEL TWA [ppm]	67 ppm
Luxembourg	OEL TWA	600 mg/m ³
Luxembourg	OEL TWA [ppm]	200 ppm

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Butanone (78-93-3)		
Luxembourg	OEL STEL	900 mg/m ³
Luxembourg	OEL STEL [ppm]	300 ppm
Malta	OEL TWA	600 mg/m ³
Malta	OEL TWA [ppm]	200 ppm
Malta	OEL STEL	900 mg/m ³
Malta	OEL STEL [ppm]	300 ppm
Netherlands	TGG-8u (OEL TWA)	590 mg/m ³
Netherlands	TGG-8u (OEL TWA) [ppm]	197 ppm
Netherlands	TGG-15min (OEL STEL)	900 mg/m ³
Netherlands	TGG-15min (OEL STEL) [ppm]	300 ppm
Poland	NDS (OEL TWA)	450 mg/m ³
Poland	NDSch (OEL STEL)	900 mg/m ³
Portugal	OEL TWA	600 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	200 ppm (indicative limit value)
Portugal	OEL STEL	900 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	300 ppm (indicative limit value)
Romania	OEL TWA	600 mg/m ³
Romania	OEL TWA [ppm]	200 ppm
Romania	OEL STEL	900 mg/m ³
Romania	OEL STEL [ppm]	300 ppm
Slovakia	NPHV (OEL TWA) [1]	600 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	200 ppm
Slovakia	NPHV (OEL C)	900 mg/m ³
Slovenia	OEL TWA	600 mg/m ³
Slovenia	OEL TWA [ppm]	200 ppm
Slovenia	OEL STEL	900 mg/m ³
Slovenia	OEL STEL [ppm]	300 ppm
Spain	VLA-ED (OEL TWA) [1]	600 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	200 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	900 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	300 ppm
Sweden	NGV (OEL TWA)	150 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	50 ppm
Sweden	KTV (OEL STEL)	900 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	300 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	600 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	200 ppm
United Kingdom	WEL STEL (OEL STEL)	899 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	300 ppm
Norway	Grenseverdi (OEL TWA) [1]	220 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	75 ppm
Norway	Korttidsverdi (OEL STEL)	275 mg/m ³ (value calculated)

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Butanone (78-93-3)		
Norway	Korttidsverdi (OEL STEL) [ppm]	112,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	590 mg/m ³
Switzerland	MAK (OEL TWA) [2]	200 ppm
Switzerland	KZGW (OEL STEL)	590 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	200 ppm
Australia	OES TWA [1]	445 mg/m ³
Australia	OES TWA [2]	150 ppm
Australia	OES STEL	890 mg/m ³
Australia	OES STEL [ppm]	300 ppm
Canada (Quebec)	VECD (OEL STEL)	300 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	100 ppm
Canada (Quebec)	VEMP (OEL TWA)	150 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	200 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	300 ppm
USA - IDLH	IDLH [ppm]	3000 ppm
USA - NIOSH	NIOSH REL TWA	590 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA - NIOSH	NIOSH REL STEL	885 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	300 ppm
USA - OSHA	OSHA PEL TWA [1]	590 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	200 ppm
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Austria	MAK (OEL TWA)	500 mg/m ³
Austria	MAK (OEL TWA) [ppm]	200 ppm
Austria	MAK (OEL STEL)	2000 mg/m ³ 2000 mg/m ³ (STEL for large casting valid until December 31, 2013)
Austria	MAK (OEL STEL) [ppm]	800 ppm 800 ppm (STEL for large casting valid until December 31, 2013)
Belgium	OEL TWA	500 mg/m ³
Belgium	OEL TWA [ppm]	200 ppm
Belgium	OEL STEL	1000 mg/m ³
Belgium	OEL STEL [ppm]	400 ppm
Bulgaria	OEL TWA	980 mg/m ³
Bulgaria	OEL STEL	1225 mg/m ³
Croatia	GVI (OEL TWA) [1]	999 mg/m ³
Croatia	GVI (OEL TWA) [2]	400 ppm
Croatia	KGVI (OEL STEL)	1250 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	500 ppm
Czech Republic	PEL (OEL TWA)	500 mg/m ³
Denmark	OEL TWA [1]	490 mg/m ³
Denmark	OEL TWA [2]	200 ppm

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Denmark	OEL STEL	980 mg/m ³
Denmark	OEL STEL [ppm]	400 ppm
Estonia	OEL TWA	350 mg/m ³
Estonia	OEL TWA [ppm]	150 ppm
Estonia	OEL STEL	600 mg/m ³
Estonia	OEL STEL [ppm]	250 ppm
Finland	HTP (OEL TWA) [1]	500 mg/m ³ (Propanol)
Finland	HTP (OEL TWA) [2]	200 ppm (Propanol)
Finland	HTP (OEL STEL)	620 mg/m ³
Finland	HTP (OEL STEL) [ppm]	250 ppm
France	VLE (OEL C/STEL)	980 mg/m ³
France	VLE (OEL C/STEL) [ppm]	400 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	500 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Biological limit value	25 mg/l Parameter: Acetone - Medium: whole blood - Sampling time: end of shift 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift
Greece	OEL TWA	980 mg/m ³
Greece	OEL TWA [ppm]	400 ppm
Greece	OEL STEL	1225 mg/m ³
Greece	OEL STEL [ppm]	500 ppm
Hungary	AK (OEL TWA)	500 mg/m ³
Hungary	CK (OEL STEL)	1000 mg/m ³
Ireland	OEL TWA [2]	200 ppm
Ireland	OEL STEL [ppm]	400 ppm
Latvia	OEL TWA	350 mg/m ³
Lithuania	IPRV (OEL TWA)	350 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	150 ppm
Lithuania	TPRV (OEL STEL)	600 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	250 ppm
Poland	NDS (OEL TWA)	900 mg/m ³
Poland	NDSch (OEL STEL)	1200 mg/m ³
Portugal	OEL TWA [ppm]	200 ppm
Portugal	OEL STEL [ppm]	400 ppm
Romania	OEL TWA	200 mg/m ³
Romania	OEL TWA [ppm]	81 ppm
Romania	OEL STEL	500 mg/m ³

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Romania	OEL STEL [ppm]	203 ppm
Slovakia	NPHV (OEL TWA) [1]	500 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	200 ppm
Slovakia	NPHV (OEL C)	1000 mg/m ³
Slovenia	OEL TWA	500 mg/m ³
Slovenia	OEL TWA [ppm]	200 ppm
Slovenia	OEL STEL	1000 mg/m ³
Slovenia	OEL STEL [ppm]	400 ppm
Spain	VLA-ED (OEL TWA) [1]	500 mg/m ³ (partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
Spain	VLA-ED (OEL TWA) [2]	200 ppm (partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
Spain	VLA-EC (OEL STEL)	1000 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	400 ppm
Sweden	NGV (OEL TWA)	350 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	150 ppm
Sweden	KTV (OEL STEL)	600 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	250 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	999 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	400 ppm
United Kingdom	WEL STEL (OEL STEL)	1250 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	500 ppm
Norway	Grenseverdi (OEL TWA) [1]	245 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	100 ppm
Norway	Korttidsverdi (OEL STEL)	306,25 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	150 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	500 mg/m ³
Switzerland	MAK (OEL TWA) [2]	200 ppm
Switzerland	KZGW (OEL STEL)	1000 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	400 ppm
Australia	OES TWA [1]	983 mg/m ³
Australia	OES TWA [2]	400 ppm
Australia	OES STEL	1230 mg/m ³
Australia	OES STEL [ppm]	500 ppm
Canada (Quebec)	VECD (OEL STEL) [ppm]	400 ppm
Canada (Quebec)	VEMP (OEL TWA) [ppm]	200 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	200 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	400 ppm
USA - IDLH	IDLH [ppm]	2000 ppm (10% LEL)

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
USA - NIOSH	NIOSH REL TWA	980 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	400 ppm
USA - NIOSH	NIOSH REL STEL	1225 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	500 ppm
USA - OSHA	OSHA PEL TWA [1]	980 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	400 ppm

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s) : Organisational measures to prevent/limit releases, dispersion and exposure : Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. See Section 7 for information on safe handling. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Neoprene, Nitrile rubber, Polyvinylalcohol (PVA). Breakthrough time : refer to the recommendations of the supplier. Thickness of the glove material: Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Eye protection : Safety glasses with side-shields. Use suitable eye protection (EN166): tightly fitting safety goggles

Body protection : Wear suitable protective clothing. Wear suitable coveralls to prevent exposure to the skin. Chemical resistant safety shoes

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
 Appearance : Liquid.
 Colour : Blue.
 Odour : Alcohol.

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Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: -20 °C
Initial boiling point and boiling range	: No data available
Flash point	: 45 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Flammable liquid and vapour.
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: Soluble in water. Ethanol. Acetone.
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: 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

Flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong acids and oxidizing agents. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Carbon oxides (CO, CO₂). Reference to other sections 5.2.

SECTION 11: Toxicological information

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)	
LD50/oral/rat	> 6000 mg/kg
LD50 oral	> 6000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50/inhalation/4h/rat	> 127,4 mg/l
ethanediol; ethylene glycol (107-21-1)	
LD50/oral/rat	< 2000 mg/kg (LDLo: > 786 mg/kg, human)
LD50/dermal/rat	10600 mg/kg (Source: JAPAN_GHS)
LD50/dermal/rabbit	9530 mg/kg
LC50/inhalation/4h/rat	> 2,5 mg/l/6h
LDLo, human	398 mg/kg (Sudebno-Meditsinskaya Ekspertiza. Forensic Medical Examination. Vol. 26(2), Pg. 48, 1983.)
Butanone (78-93-3)	
LD50/oral/rat	2483 mg/kg (Source: JAPAN_GHS)
LD50/dermal/rabbit	5000 mg/kg (Source: JAPAN_GHS)
LC50/inhalation/4h/rat (ppm)	11700 ppm/4h
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 10000 mg/kg
LC50/inhalation/4h/rat	46 – 73 mg/l/4h
LC50/inhalation/4h/rat (ppm)	10000 ppm

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.
pH: No data available

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

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ethanediol; ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1500 mg/kg bodyweight

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)	
NOAEL (oral, rat)	13800 mg/kg bodyweight (OECD 416)
NOAEC (inhalation, rat, gas)	> 16000 ppmv/4h

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

ethanediol; ethylene glycol (107-21-1)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day OECD Guideline 407

Butanone (78-93-3)	
NOAEC (inhalation, rat, gas, 90 days)	2500 ppmv/6h/day 90d, 6h/d, 5d/wk

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Protecton Screenwash Ready to use winter -20	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics.
For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 is 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 %

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

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]	> 10000 mg/l Oncorhynchus mykiss (Rainbow trout)

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LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	9268 – 14221 mg/l (48h)
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 72h - Algae [1]	275 mg/l (Chlorella vulgaris, 72h)
EC50 72h - Algae [2]	12900 mg/l Selenastrum (capricornutum, 72h)
LC50, Fish, Leuciscus idus (golden orfe)	8140 mg/l (48 hours)
IC5, algae, Scenedesmus quadricauda	5000 mg/l (168 hours)
EC5, Bacteria, Pseudomonas putida	6500 mg/l (16 hours)

ethanediol; ethylene glycol (107-21-1)

LC50 - Fish [1]	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
LC50 - Fish [2]	54700 (14 – 18) ml/l (Exposure time: 96 h - Fathead minnow)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	41000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	6500 – 13000 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	15380 mg/l @ 7d Pimephales promelas

Butanone (78-93-3)

LC50 - Fish [1]	3130 – 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	> 520 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LC50 - Fish [1]	> 2000 mg/l (96 h)
LC50 - Fish [2]	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	> 2000 mg/l (48 h)
EC50 72h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	> 1000 mg/l (Species: Desmodesmus subspicatus)
ErC50 algae	> 1000 mg/l (72h)

12.2. Persistence and degradability

Protecton Screenwash Ready to use winter -20

Persistence and degradability	Readily biodegradable.
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ethanol; ethyl alcohol (64-17-5)	
Persistence and degradability	Readily biodegradable.
BOD (% of ThOD)	(BOD ₂₀ =84%)

ethanediol; ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable.

Butanone (78-93-3)	
Persistence and degradability	Readily biodegradable.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Protecton Screenwash Ready to use winter -20	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

ethanol; ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water	-0,35 (at 24 °C (at pH 7.4)
Partition coefficient n-octanol/water (Log Kow)	< 4,5
Bioaccumulative potential	Low potential.

ethanediol; ethylene glycol (107-21-1)	
Partition coefficient n-octanol/water	-1,36
Bioaccumulative potential	Does not bioaccumulate.

Butanone (78-93-3)	
Partition coefficient n-octanol/water	0,3 (at 40 °C (at pH 7)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Partition coefficient n-octanol/water	0,05 (at 25 °C)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4. Mobility in soil

Protecton Screenwash Ready to use winter -20	
Mobility in soil	No data available
Ecology - soil	No data available.

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ethanol; ethyl alcohol (64-17-5)

Ecology - soil	The product evaporates from soil.
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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Ecology - soil	soluble in water.
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12.5. Results of PBT and vPvB assessment

Protecton Screenwash Ready to use winter -20

Results of PBT assessment	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : 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 is 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 %

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
The following Waste Codes are only suggestions:
07 01 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
1987	1987	1987	1987	1987
14.2. UN proper shipping name				
ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol)	ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol)	Alcohols, n.o.s. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol)	ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol)	ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol)

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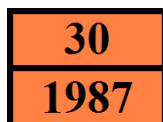
ADR	IMDG	IATA	ADN	RID
Transport document description				
UN 1987 ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol), 3, III, (D/E)	UN 1987 ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 Alcohols, n.o.s. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (ethanol; ethyl alcohol ; propan-2-ol; isopropyl alcohol; isopropanol), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	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	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Classification code (ADR) : F1
 Special provisions : 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 :



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Tunnel restriction code : D/E
 EAC code : •3Y

- Transport by sea

Special provisions (IMDG) : 223, 274
 Limited quantities (IMDG) : 5 L
 Excepted quantities (IMDG) : E1
 Packing instructions (IMDG) : P001, LP01
 IBC packing instructions (IMDG) : IBC03
 Tank instructions (IMDG) : T4
 Tank special provisions (IMDG) : TP1, TP29
 EmS-No. (Fire) : F-E
 EmS-No. (Spillage) : S-D
 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, A180
 ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
 Special provisions (ADN) : 274, 601
 Limited quantities (ADN) : 5 L
 Excepted quantities (ADN) : E1
 Carriage permitted (ADN) : T
 Equipment required (ADN) : PP, EX, A
 Ventilation (ADN) : VE01
 Number of blue cones/lights (ADN) : 0

- 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

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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

Code: IBC : No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Protecton Screenwash Ready to use winter -20 ethanol; ethyl alcohol ; Butanone ; propan-2-ol; isopropyl alcohol; isopropanol
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Protecton Screenwash Ready to use winter -20 ethanol; ethyl alcohol ; ethanediol; ethylene glycol ; Butanone ; propan-2-ol; isopropyl alcohol; isopropanol
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	ethanol; ethyl alcohol ; Butanone ; propan-2-ol; isopropyl alcohol; isopropanol

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

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

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	

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4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	
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Germany

Regulatory reference	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
German storage class (LGK)	: LGK 3 - Flammable liquids
Hazardous Incident Ordinance (12. BImSchV)	: Listed in the 12. BImSchV (Annex I) under: 1.2.5.2 Quantity threshold for operational area under § 1 para. 1 - Sentence 1: 50000 kg - Sentence 2: 200000 kg

Netherlands

Waterbezwaarlijkheid	: B (4) - Weinig schadelijk voor in het water levende organismen
SZW-lijst van kankerverwekkende stoffen	: ethanol; ethyl alcohol is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: ethanol; ethyl alcohol is listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: ethanol; ethyl alcohol is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: ethanol; ethyl alcohol is listed

Denmark

Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <H226;H319>; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

Indication of changes:

1.2	Main use category	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	
2.2	Hazard statements (CLP)	Modified	
2.2	Precautionary	Modified	

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	statements (CLP)		
2.3	ED text	Added	
3	Composition/information on ingredients	Modified	
5.2	Specific hazards	Modified	
9.1	Flammability	Modified	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	Added	
11.1	Information on toxicological effects	Modified	
11.2.	Adverse health effects caused by endocrine disrupting properties	Added	
12.1	Toxicity	Modified	
12.5	Results of PBT assessment	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Modified	
15.1	Installations classées	Added	
15.1	12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	Added	
15.1	German storage class (LGK)	Added	
15.2	Chemical safety assessment	Modified	
16	Training advice	Added	

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals CSR = CSR = Chemical Safety Report DNEL = DNEL = Derived No Effect Level LD50 = Median lethal dose N.O.S. = Not Otherwise Specified PNEC = Predicted No Effect Concentration TWA = time weighted average STEL = Short term exposure limit TLV = Threshold limits WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) NA = Not applicable
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	vPvB = very persistent and very bioaccumulating
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LL50 = Median lethal level
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	VOC = Volatile organic compounds

Sources of key data used to compile the : ECHA (European Chemicals Agency). LOLI. Supplier information. datasheet

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).
Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

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
Flam. Liq. 3	Flammable liquids, Category 3
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.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
 Classification according to Regulation (EC) No. 1272/2008 [CLP]
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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