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

1.1. Product identifier

Product form	: Mixture
Trade name	: ES COMPLEAT EG PREMIX
Product code	: ES Compleat EG 50/50 Premix: CC2826AT (Bulk); CC2748M (5L); CC2750M (20L pail); CC2826M (208L drum); CC2852M (1000L tote); CC2827M (bulk); CC2827 RS (Bulk); CC2827 RSJ (5L); CC2827 RSP (20L); CC2827 RSD (208L); CC2827 RST (1000L) ES Compleat EG 60/40 Premix: CC2907 ES5L (5L); CC2907 ES20L (20L); CC2907 ES208L (208L Drum); CC2907 ES1000L (1.000L tote); CC2907 ES (bulk); ; CC2907 RS (bulk); CC2907 RSJ (5L); CC2907 RSP (20L); CC2907 RSD (208L) ES Compleat EG 40/60 Premix: CC2919 ESD (208L Drum); CC2919 EST (1.000L tote); CC2919 ES (bulk)
Product group	: Trade product
Document no.	: LT16587 EU

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Coolant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Fleetguard
Unit 3 / Valley Drive / Valley Park / Rugby
CV21 1 TN Warwickshire
The United Kingdom
T +44 (0)1788 853600
custserve.uk@fleetguard.com

1.4. Emergency telephone number

Emergency number	: +44 (0) 1235 239670 (Carechem24) Only available during office hours.
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Country/Area	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)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302

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Specific target organ toxicity – Repeated exposure, Category H373

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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)

:



GHS07



GHS08

Signal word

: Warning

Contains

: ethanediol; ethylene glycol; 2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL; sodium nitrite

Hazard statements (CLP)

: H302 - Harmful if swallowed.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards

: Results of PBT and vPvB assessment : Contains no PBT and/or 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 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

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanediol; ethylene glycol	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index: 603-027-00-1	40 – 60	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL	CAS-No.: 111-46-6 EC-No.: 203-872-2 EC Index: 603-140-00-6	0,1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
sodium nitrite	CAS-No.: 7632-00-0 EC-No.: 231-555-9 EC Index: 007-010-00-4	0,1 – 0,5	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 (ATE=85 mg/kg bodyweight) Eye Irrit. 2, H319 Aquatic Acute 1, H400

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. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Inhalation	: May cause respiratory irritation. Dizziness. The following symptoms may occur: Cough. Headache.
Skin contact	: May cause skin irritation in susceptible persons. Components of the product may be absorbed into the body through the skin.
Eyes contact	: May cause eye irritation with susceptible persons. The following symptoms may occur: erythema (redness). Pain .
Ingestion	: Harmful if swallowed. Weakness. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Kidney injury may occur. The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis. The following symptoms may occur: Vomiting. Unconsciousness. Nausea . Abdominal pain.
Chronic symptoms	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards : Not flammable. Heating will cause a rise in pressure with a risk of bursting. Vapours are heavier than air and may spread along floors.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Formaldehyde.

5.3. Advice for firefighters

Firefighting instructions : 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. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not eat, drink or smoke in areas where product is used. Do not ingest. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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. Dilute with plenty of water. 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.

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6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Use only in well ventilated areas. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Do not ingest. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. 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). Avoid release to the environment. After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Storage conditions

: 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.

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.

Packaging materials

: Keep only in the original container.

Germany

German storage class (LGK)

: LGK 12 - Non-combustible liquids

7.3. Specific end use(s)

Coolant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

ethanediol; ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	52 mg/m ³

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ethanediol; ethylene glycol (107-21-1)	
	20 ppm
IOEL STEL	104 mg/m ³
	40 ppm
Remark	Possibility of significant uptake through the skin
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	26 mg/m ³
	10 ppm
MAK (OEL STEL)	52 mg/m ³
	20 ppm
OEL chemical category	Skin notation
Belgium - Occupational Exposure Limits	
OEL TWA	52 mg/m ³ (aerosol)
	20 ppm (aerosol)
OEL STEL	104 mg/m ³ (aerosol)
	40 ppm (aerosol)
OEL chemical category	Skin, Skin notation
Bulgaria - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	52 mg/m ³
	20 ppm
KGVI (OEL STEL)	104 mg/m ³
	40 ppm
OEL chemical category	Skin notation
Cyprus - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Skin-potential for cutaneous absorption

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ethanediol; ethylene glycol (107-21-1)	
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	50 mg/m ³
OEL chemical category	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
OEL TWA	26 mg/m ³
	10 mg/m ³ (atomized)
	10 ppm
OEL STEL	104 mg/m ³
	20 mg/m ³ (atomized)
	40 ppm
OEL chemical category	Potential for cutaneous absorption
Estonia - Occupational Exposure Limits	
OEL TWA	52 mg/m ³ (total concentration of aerosol and vapor)
	20 ppm (total concentration of aerosol and vapor)
OEL STEL	104 mg/m ³ (total concentration of aerosol and vapor)
	40 ppm (total concentration of aerosol and vapor)
OEL chemical category	Skin notation
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	50 mg/m ³
	20 ppm
HTP (OEL STEL)	100 mg/m ³
	40 ppm
OEL chemical category	Potential for cutaneous absorption
France - Occupational Exposure Limits	
VME (OEL TWA)	52 mg/m ³ (indicative limit-vapor)
	20 ppm (indicative limit-vapor)
VLE (OEL C/STEL)	104 mg/m ³ (indicative limit-vapor)
	40 ppm (indicative limit-vapor)
OEL chemical category	Risk of cutaneous absorption
Germany - Occupational Exposure Limits (TRGS 900)	
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)
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)

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ethanediol; ethylene glycol (107-21-1)	
Chemical category	Skin notation
Gibraltar - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Skin notation
Greece - Occupational Exposure Limits	
OEL TWA	125 mg/m ³ (vapor)
	50 ppm (vapor)
OEL STEL	125 mg/m ³ (vapor)
	50 ppm (vapor)
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	52 mg/m ³
CK (OEL STEL)	104 mg/m ³
OEL chemical category	Potential for cutaneous absorption
Ireland - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Potential for cutaneous absorption
Italy - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	skin - potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL chemical category	skin - potential for cutaneous exposure

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ethanediol; ethylene glycol (107-21-1)	
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	25 mg/m ³ (aerosol and vapor)
	10 ppm (aerosol and vapor)
TPRV (OEL STEL)	50 mg/m ³ (aerosol and vapor)
	20 ppm (aerosol and vapor)
OEL chemical category	Skin notation
Luxembourg - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Possibility of significant uptake through the skin
Malta - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Possibility of significant uptake through the skin
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	52 mg/m ³ (vapour)
	10 mg/m ³ (droplets)
TGG-15min (OEL STEL)	104 mg/m ³ (vapour)
	40 ppm (vapour)
MAC chemical category	Skin notation vapour
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	15 mg/m ³
NDSch (OEL STEL)	50 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	52 mg/m ³ (indicative limit value)
	20 ppm (indicative limit value)
OEL STEL	104 mg/m ³ (indicative limit value)
	40 ppm (indicative limit value)
OEL C	100 mg/m ³ (aerosol only)

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ethanediol; ethylene glycol (107-21-1)	
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value
Romania - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Skin notation
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	52 mg/m ³
	20 ppm
NPHV (OEL C)	104 mg/m ³
OEL chemical category	Potential for cutaneous absorption
Slovenia - Occupational Exposure Limits	
OEL TWA	52 mg/m ³
	20 ppm
OEL STEL	104 mg/m ³
	40 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	52 mg/m ³ (indicative limit value)
	20 ppm (indicative limit value)
VLA-EC (OEL STEL)	104 mg/m ³
	40 ppm
OEL chemical category	skin - potential for cutaneous absorption
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	25 mg/m ³ (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
	10 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
KGV (OEL STEL)	104 mg/m ³ (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
	40 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
OEL chemical category	Skin notation

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ethanediol; ethylene glycol (107-21-1)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	10 mg/m ³ (particulates)
	52 mg/m ³ (vapour)
	20 ppm (vapour)
WEL STEL (OEL STEL)	104 mg/m ³ (vapour)
	30 mg/m ³ (calculated-particulate)
	40 ppm (vapour)
WEL chemical category	Potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	52 mg/m ³ (total sum of gas and particulate matter (aerosol) of the substance)
	20 ppm (total sum of gas and particulate matter (aerosol) of the substance)
Korttidsverdi (OEL STEL)	104 mg/m ³ (total sum of gas and particulate matter (aerosol) of the substance)
	40 ppm (total sum of gas and particulate matter (aerosol) of the substance)
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	26 mg/m ³ (aerosol, vapour)
	10 ppm (aerosol, vapour)
KZGW (OEL STEL)	52 mg/m ³ (aerosol, vapour)
	20 ppm (aerosol, vapour)
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	25 ppm (vapor fraction)
ACGIH OEL STEL	10 mg/m ³ (inhalable particulate matter, aerosol only)
	50 ppm (vapor fraction)
ACGIH chemical category	Not Classifiable as a Human Carcinogen

2,2'-OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
Austria - Occupational Exposure Limits	
Local name	Diethylenglykol (2,2'-Oxidiethanol)
MAK (OEL TWA)	44 mg/m ³
	10 ppm
MAK (OEL STEL)	176 mg/m ³
	40 ppm
Regulatory reference	BGBl. II Nr. 156/2021

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2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
Bulgaria - Occupational Exposure Limits	
Local name	Диетиленгликол
OEL TWA	10 mg/m ³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
Croatia - Occupational Exposure Limits	
Local name	2,2'-Oksibisetanol; dietilen-glikol
GVI (OEL TWA)	101 mg/m ³
	23 ppm
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
Denmark - Occupational Exposure Limits	
Local name	Diethylenglycol
OEL TWA	11 mg/m ³
	2,5 ppm
OEL STEL	22 mg/m ³
	5 ppm
Regulatory reference	BEK nr 202 af 21/02/2023
Estonia - Occupational Exposure Limits	
Local name	2,2'-hüdroksüdietanool (dietüleenglükool)
OEL TWA	45 mg/m ³
	10 ppm
OEL STEL	90 mg/m ³
	20 ppm
Remark	A (Naha kaudu kergesti imenduv aine)
OEL chemical category	Skin notation
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2,2'-Oxydiethanol
Occupational exposure limit value (mg/m ³) (TRGS900)	44 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
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)
Peak exposure limitation factor	4(II)

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2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
Local name	Diethylene glycol [2,2'-Oxydiethanol]
OEL TWA	100 mg/m ³
	23 ppm
OEL STEL	300 mg/m ³ (calculated)
	69 ppm (calculated)
Regulatory reference	Chemical Agents Code of Practice 2021
Latvia - Occupational Exposure Limits	
Local name	Dietilēnglikols (2,2' oksibisetanols, 2,2' dihidroksidietilēteris)
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
Local name	2,2-oksidiētanolis (dietilenglikolis, diglikolis)
IPRV (OEL TWA)	45 mg/m ³ (2,2-Oxydiethanol)
	10 ppm (2,2-Oxydiethanol)
TPRV (OEL STEL)	90 mg/m ³ (2,2-Oxydiethanol)
	20 ppm (2,2-Oxydiethanol)
Remark	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
OEL chemical category	Skin notation
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Poland - Occupational Exposure Limits	
Local name	2,2'-Oksydiētanol (glikol dwuetylenowy)
NDS (OEL TWA)	10 mg/m ³ (inhalable fraction)
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
Romania - Occupational Exposure Limits	
Local name	2,2' oxibisetanol/Dietilenglicol
OEL TWA	500 mg/m ³

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2,2'-OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
	115 ppm
OEL STEL	800 mg/m ³
	184 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Dietylénglykol (2,2'-oxydietanol)
NPHV (OEL TWA)	44 mg/m ³
	10 ppm
NPHV (OEL STEL)	90 mg/m ³
	20 ppm
NPHV (OEL C)	90 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	2,2'-oksidietanol
OEL TWA	44 mg/m ³
	10 ppm
OEL STEL	176 mg/m ³
	40 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Sweden - Occupational Exposure Limits	
Local name	Dietylenglykol
NGV (OEL TWA)	45 mg/m ³
	10 ppm
KGV (OEL STEL)	90 mg/m ³
	20 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
OEL chemical category	Skin notation
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)

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2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
United Kingdom - Occupational Exposure Limits	
Local name	2,2'-Oxydiethanol
WEL TWA (OEL TWA)	101 mg/m ³
	23 ppm
WEL STEL (OEL STEL)	303 mg/m ³ (calculated)
	69 ppm (calculated)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Díetylenglýkól
OEL TWA	11 mg/m ³
	2,5 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
North Macedonia - Occupational Exposure Limits	
Local name	2,2'-оксидиетанол
OEL TWA	44 mg/m ³
	10 ppm
KTV	4
Short time value [mg/m ³]	176 mg/m ³
Short time value	40 ppm
Remark	(KTV) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m ³ или во ml/m ³ (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност; (Y)
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
Switzerland - Occupational Exposure Limits	
Local name	Diéthylèneglycol / Diethylenglykol
MAK (OEL TWA)	44 mg/m ³ (aerosol, vapour)
	10 ppm (aerosol, vapour)
KZGW (OEL STEL)	176 mg/m ³ (aerosol, vapour)

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2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
	40 ppm (aerosol, vapour)
Notation	SS _c / SS _c
Remark	La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen
Regulatory reference	www.suva.ch, 01.01.2024

sodium nitrite (7632-00-0)	
Lithuania - Occupational Exposure Limits	
NRV (OEL C)	0,1 mg/m ³

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Concentration measurement in air. Personal air monitoring. Personal air monitoring. Room air monitoring.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

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

8.1.5. Control banding

No additional information available

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.

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.

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Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Breakthrough time : refer to the recommendations of the supplier. Thickness : 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	: Use suitable eye protection (EN166): tightly fitting safety goggles. Safety glasses
Body protection	: Wear suitable protective clothing
Respiratory protection	: Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). Half-face mask (DIN EN 140). Filter type: A (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
Colour	: Blue.
Appearance	: Liquid.
Odour	: Characteristic.
Odour threshold	: No data available
Melting / freezing point	: No data available
Freezing point	: Not available
Initial boiling point and boiling range	: 107 °C
Flammability	: Not applicable,(liquid)
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.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: 9,4 – 10
Kinematic viscosity	: No additional information available
Dynamic viscosity	: No additional information available
Solubility	: Water: No data available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water	: No data available
Vapour pressure	: No data available

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Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1,056 – 1,088
Vapour density	: No data 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

VOC content : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur. 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

oxidising substances. acids and bases . See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides. Formaldehyde . 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 (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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ATE CLP (oral)	781,969 mg/kg bodyweight

ethanediol; ethylene glycol (107-21-1)	
LD50/oral/rat	4700 mg/kg (Source: NLM_CIP)
LD50/dermal/rat	10600 mg/kg (Source: JAPAN_GHS)
LC50/inhalation/4h/rat	> 2,5 mg/l (Exposure time: 6 h Source: ECHA_API)

2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
LD50/oral/rat	12565 mg/kg (Source: NLM_CIP)
LD50 oral	12565 mg/kg
LD50/dermal/rabbit	11890 mg/kg (Source: NLM_CIP)
LD50 dermal	11890 ml/kg
LC50/inhalation/4h/rat	> 4600 mg/m ³ (Exposure time: 4 h Source: NICNAS)

sodium nitrite (7632-00-0)	
LD50/oral/rat	85 mg/kg (Source: JAPAN_GHS)
LC50/inhalation/4h/rat	5,5 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 9,4 – 10
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 9,4 – 10
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)
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)
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

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

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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Kinematic viscosity	No additional information available

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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 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 %

11.2.2. Other information

Other adverse effects

: May cause damage to organs through prolonged or repeated exposure.

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

: Not classified.

Hazardous to the aquatic environment, short-term (acute)

: Not classified

Hazardous to the aquatic environment, long-term (chronic)

: Not classified

ethanediol; ethylene glycol (107-21-1)	
LC50 - Fish [1]	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
LC50 - Fish [2]	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	6500 – 13000 mg/l (Species: Pseudokirchneriella subcapitata)

2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
LC50 - Fish [1]	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

sodium nitrite (7632-00-0)	
LC50 - Fish [1]	0,19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
LC50 - Fish [2]	0,092 – 0,13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 - Crustacea [1]	87 mg/l

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12.2. Persistence and degradability

ES COMPLEAT EG PREMIX	
Persistence and degradability	The product itself has not been tested. No additional information available.

12.3. Bioaccumulative potential

ES COMPLEAT EG PREMIX	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

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

2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
BCF - Fish [1]	100 – 180
Partition coefficient n-octanol/water	-1,98 (at 25 °C)

sodium nitrite (7632-00-0)	
Partition coefficient n-octanol/water	-3,7 (at 25 °C)

12.4. Mobility in soil

ES COMPLEAT EG PREMIX	
Mobility in soil	No data available
Ecology - soil	The product itself has not been tested.

12.5. Results of PBT and vPvB assessment

ES COMPLEAT EG PREMIX	
Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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 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 %.

12.7. Other adverse effects

Other adverse effects

: No data available.

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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.
European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)	: This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities MS-N13.00030020 - The following Waste Codes are only suggestions: MS-N13.00401410BIS - 07 02 04* - other organic solvents, washing liquids and mother liquors / MS-N13.00403610 - 150110 - packaging containing residues of or contaminated by dangerous substances .

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable				

14.6. Special precautions for user

Special precautions for user : Not applicable

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

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- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC

: 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)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	ES COMPLEAT EG PREMIX ; ethanediol; ethylene glycol ; 2,2' - OXYBISETHANOL, DIETHYLENE GLYCOL	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

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 (EU 1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content

:No data available

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Drug Precursors Regulation (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)

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

15.1.2. National regulations

France

Occupational diseases			
Code	Description		
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide		
Installations classées			
No ICPE	Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

No ICPE

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Technical Instructions on Air Quality Control (TA Luft) : 5.2.5 Organic Substances.

Netherlands

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

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

Not applicable.

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SECTION 16: Other information

Indication of changes:

3	Composition/information on ingredients	Modified	
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Abbreviations and acronyms:

	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
	EC50 = Median Effective Concentration
	LD50 = Median lethal dose
	LC50 = Median lethal concentration
	N.O.S. = Not Otherwise Specified
	DNEL = DNEL = Derived No Effect Level
	PNEC = Predicted No Effect Concentration
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
	ABM = Algemene beoordelingsmethodiek
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	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
	LL50 = Median lethal level
	NA = Not applicable
	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 datasheet : ECHA (European Chemicals Agency). LOLI. Supplier information.

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Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons. Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
Ox. Sol. 3	Oxidising Solids, Category 3
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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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