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

1.1. Product identifier

Product form : Mixture

Trade name : ES COMPLEAT EG CONCENTRATE

Product code : CC2820 (3.785 L); CC2821 (208 L Drum); CC2822 (Bulk); CC2847 (18.9 L Pail); CC2823 (Totes); CC2747M (5L); CC2749M (20L); CC2821M (208 L Drum); CC2851M (1000L container); CC2822M (Bulk); CC2822 RS (Bulk); CC2822 RSJ (5L); CC2822 RSP (20L); CC2822 RSD (208L); CC2822 RST (1000L); CC2911 (Bulk)

Product group : Trade product

Document no. : LT16588 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
Anti-freezing agent

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

Fleetguard
Zone Industrielle du Grand Guelen
29556 Quimper Cedex 9 - France
T +33 (0) 2 98 76 49 49
fleetguard.support.emea@cummins.com

OOO Cummins
Klyazma 1G, Khimki, Moscow Region
141402 - Russia
T +7 495 926 86 24/25
dbu.russia@cummins.com

Fleetguard
Catenbergstraat 1
2840 Rumst - Belgium
T +32 3 456 3000
fleetguard.support.emea@cummins.com

Fleetguard
Waterfall Commercial Park,
Pretoria Main Road and Beatty Street,
Woodmead, Johannesburg - South Africa
T +27 10 285 0200
fleetguard.support.emea@cummins.com

1.4. Emergency telephone number

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

Country	Official advisory body	Address	Emergency number
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 Tox. 4 (Oral)	H302
Repr. 1B	H360FD
STOT RE 2	H373

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

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07 GHS08

Signal word : Danger
Contains : ethanediol; ethylene glycol, 2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL, sodium nitrite, disodium tetraborate, anhydrous
Hazard statements (CLP) : H302 - Harmful if swallowed.
H360FD - May damage fertility. May damage the unborn child.
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P308+P313 - IF exposed or concerned: Get medical advice, medical attention.
P501 - Dispose of contents and container to an approved waste disposal plant.
Extra phrases : Restricted to professional users.

2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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]
ethanediol; ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index) 603-027-00-1	90 – 100	Acute Tox. 4 (Oral), H302 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
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 Eye Irrit. 2, H319 Aquatic Acute 1, H400
disodium tetraborate, anhydrous substance listed as REACH Candidate	(CAS-No.) 1330-43-4 (EC-No.) 215-540-4 (EC Index) 005-011-00-4	0,1 – 0,5	Eye Irrit. 2, H319 Repr. 1B, H360FD

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. Wash contaminated clothing before reuse. 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 : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. 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	:	mild skin irritation . 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). May damage fertility or the unborn child.

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.

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.
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. Do not ingest. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. 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. 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.

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. Do not breathe vapours. Avoid contact with skin, eyes and clothing. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. After use replace the closing cap immediately.

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. After use replace the closing cap immediately. Keep container tight closed.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

Coolant. Anti-freezing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanediol; ethylene glycol (107-21-1)		
EU	IOEL TWA	52 mg/m³
EU	IOEL TWA [ppm]	20 ppm
EU	IOEL STEL	104 mg/m³
EU	IOEL STEL [ppm]	40 ppm
EU	Remark	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	26 mg/m³

ethanediol; ethylene glycol (107-21-1)		
Austria	MAK (OEL TWA) [ppm]	10 ppm
Austria	MAK (OEL STEL)	52 mg/m³
Austria	MAK (OEL STEL) [ppm]	20 ppm
Bulgaria	OEL TWA	52 mg/m³
Bulgaria	OEL TWA [ppm]	20 ppm
Bulgaria	OEL STEL	104 mg/m³
Bulgaria	OEL STEL [ppm]	40 ppm
Croatia	GVI (OEL TWA) [1]	52 mg/m³
Croatia	GVI (OEL TWA) [2]	20 ppm
Croatia	KGVI (OEL STEL)	104 mg/m³
Croatia	KGVI (OEL STEL) [ppm]	40 ppm
Cyprus	OEL TWA	52 mg/m³
Cyprus	OEL TWA [ppm]	20 ppm
Cyprus	OEL STEL	104 mg/m³
Cyprus	OEL STEL [ppm]	40 ppm
Czech Republic	PEL (OEL TWA)	50 mg/m³
Denmark	OEL TWA [1]	26 mg/m³ 10 mg/m³ (atomized)
Denmark	OEL TWA [2]	10 ppm
Estonia	OEL TWA	52 mg/m³ (total concentration of aerosol and vapor)
Estonia	OEL TWA [ppm]	20 ppm (total concentration of aerosol and vapor)
Estonia	OEL STEL	104 mg/m³ (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/m³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	100 mg/m³
Finland	HTP (OEL STEL) [ppm]	40 ppm
France	VME (OEL TWA)	52 mg/m³ (indicative limit-vapor)
France	VME (OEL TWA) [ppm]	20 ppm (indicative limit-vapor)
France	VLE (OEL C/STEL)	104 mg/m³ (indicative limit-vapor)
France	VLE (OEL C/STEL) [ppm]	40 ppm (indicative limit-vapor)
Germany	Occupational exposure limit value (mg/m³) (TRGS900)	26 mg/m³ (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)	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/m³
Gibraltar	OEL TWA [ppm]	20 ppm
Gibraltar	OEL STEL	104 mg/m³

ethanediol; ethylene glycol (107-21-1)		
Gibraltar	OEL STEL [ppm]	40 ppm
Greece	OEL TWA	125 mg/m³ (vapor)
Greece	OEL TWA [ppm]	50 ppm (vapor)
Greece	OEL STEL	125 mg/m³ (vapor)
Greece	OEL STEL [ppm]	50 ppm (vapor)
Hungary	AK (OEL TWA)	52 mg/m³
Hungary	CK (OEL STEL)	104 mg/m³
Ireland	OEL TWA [1]	52 mg/m³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	104 mg/m³
Ireland	OEL STEL [ppm]	40 ppm
Italy	OEL TWA	52 mg/m³
Italy	OEL TWA [ppm]	20 ppm
Italy	OEL STEL	104 mg/m³
Italy	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	52 mg/m³
Latvia	OEL TWA [ppm]	20 ppm
Lithuania	IPRV (OEL TWA)	25 mg/m³ (aerosol and vapor)
Lithuania	IPRV (OEL TWA) [ppm]	10 ppm (aerosol and vapor)
Lithuania	TPRV (OEL STEL)	50 mg/m³ (aerosol and vapor)
Lithuania	TPRV (OEL STEL) [ppm]	20 ppm (aerosol and vapor)
Luxembourg	OEL TWA	52 mg/m³
Luxembourg	OEL TWA [ppm]	20 ppm
Luxembourg	OEL STEL	104 mg/m³
Luxembourg	OEL STEL [ppm]	40 ppm
Malta	OEL TWA	52 mg/m³
Malta	OEL TWA [ppm]	20 ppm
Malta	OEL STEL	104 mg/m³
Malta	OEL STEL [ppm]	40 ppm
Netherlands	TGG-8u (OEL TWA)	52 mg/m³ (fume) 10 mg/m³ (droplets)
Netherlands	TGG-15min (OEL STEL)	104 mg/m³
Poland	NDS (OEL TWA)	15 mg/m³
Poland	NDSCh (OEL STEL)	50 mg/m³
Portugal	OEL TWA	52 mg/m³ (indicative limit value)
Portugal	OEL TWA [ppm]	20 ppm (indicative limit value)
Portugal	OEL STEL	104 mg/m³ (indicative limit value)
Portugal	OEL STEL [ppm]	40 ppm (indicative limit value)

ethanediol; ethylene glycol (107-21-1)		
Portugal	OEL C	100 mg/m³ (aerosol only)
Romania	OEL TWA	52 mg/m³
Romania	OEL TWA [ppm]	20 ppm
Romania	OEL STEL	104 mg/m³
Romania	OEL STEL [ppm]	40 ppm
Slovakia	NPHV (OEL TWA) [1]	52 mg/m³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	104 mg/m³
Slovenia	OEL TWA	52 mg/m³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	104 mg/m³
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	52 mg/m³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	104 mg/m³
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	25 mg/m³ (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/m³ (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/m³ (particulates) 52 mg/m³ (vapour)
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm (vapour)
United Kingdom	WEL STEL (OEL STEL)	104 mg/m³ (vapour) 30 mg/m³ (calculated-particulate)
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm (vapour)
Norway	Grenseverdi (OEL TWA) [1]	52 mg/m³ (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/m³ (total sum of gas and particulate matter (aerosol) of the substance)
Norway	Korttidsverdi (OEL STEL) [ppm]	40 ppm (total sum of gas and particulate matter (aerosol) of the substance)

ethanediol; ethylene glycol (107-21-1)		
Switzerland	MAK (OEL TWA) [1]	26 mg/m³ (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	52 mg/m³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	20 ppm (aerosol, vapour)
Australia	OES TWA [1]	10 mg/m³ (particulate) 52 mg/m³ (vapour)
Australia	OES TWA [2]	20 ppm (vapour)
Australia	OES STEL	104 mg/m³ (vapour)
Australia	OES STEL [ppm]	40 ppm (vapour)
Canada (Quebec)	Plafond (OEL C)	127 mg/m³ (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/m³ (inhalable particulate matter, aerosol only)
USA - ACGIH	ACGIH OEL STEL [ppm]	50 ppm (vapor fraction)

2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)		
Austria	MAK (OEL TWA)	44 mg/m³
Austria	MAK (OEL TWA) [ppm]	10 ppm
Austria	MAK (OEL STEL)	176 mg/m³
Austria	MAK (OEL STEL) [ppm]	40 ppm
Bulgaria	OEL TWA	10 mg/m³
Croatia	GVI (OEL TWA) [1]	101 mg/m³
Croatia	GVI (OEL TWA) [2]	23 ppm
Denmark	OEL TWA [1]	11 mg/m³
Denmark	OEL TWA [2]	2,5 ppm
Estonia	OEL TWA	45 mg/m³
Estonia	OEL TWA [ppm]	10 ppm
Estonia	OEL STEL	90 mg/m³
Estonia	OEL STEL [ppm]	20 ppm
Germany	Occupational exposure limit value (mg/m³) (TRGS900)	44 mg/m³ (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)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Ireland	OEL TWA [1]	100 mg/m³
Ireland	OEL TWA [2]	23 ppm
Ireland	OEL STEL	300 mg/m³ (calculated)
Ireland	OEL STEL [ppm]	69 ppm (calculated)
Latvia	OEL TWA	10 mg/m³
Lithuania	IPRV (OEL TWA)	45 mg/m³ (2,2-Oxydiethanol)

2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)		
Lithuania	IPRV (OEL TWA) [ppm]	10 ppm (2,2-Oxydiethanol)
Lithuania	TPRV (OEL STEL)	90 mg/m³ (2,2-Oxydiethanol)
Lithuania	TPRV (OEL STEL) [ppm]	20 ppm (2,2-Oxydiethanol)
Poland	NDS (OEL TWA)	10 mg/m³ (inhalable fraction)
Romania	OEL TWA	500 mg/m³
Romania	OEL TWA [ppm]	115 ppm
Romania	OEL STEL	800 mg/m³
Romania	OEL STEL [ppm]	184 ppm
Slovakia	NPHV (OEL TWA) [1]	44 mg/m³
Slovakia	NPHV (OEL TWA) [2]	10 ppm
Slovakia	NPHV (OEL C)	90 mg/m³
Slovenia	OEL TWA	44 mg/m³
Slovenia	OEL TWA [ppm]	10 ppm
Slovenia	OEL STEL	176 mg/m³
Slovenia	OEL STEL [ppm]	40 ppm
Sweden	NGV (OEL TWA)	45 mg/m³
Sweden	NGV (OEL TWA) [ppm]	10 ppm
Sweden	KTV (OEL STEL)	90 mg/m³
Sweden	KTV (OEL STEL) [ppm]	20 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	101 mg/m³
United Kingdom	WEL TWA (OEL TWA) [2]	23 ppm
United Kingdom	WEL STEL (OEL STEL)	303 mg/m³ (calculated)
United Kingdom	WEL STEL (OEL STEL) [ppm]	69 ppm (calculated)
Switzerland	MAK (OEL TWA) [1]	44 mg/m³ (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	176 mg/m³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	40 ppm (aerosol, vapour)
Australia	OES TWA [1]	100 mg/m³
Australia	OES TWA [2]	23 ppm

sodium nitrite (7632-00-0)		
Lithuania	NRV (OEL C)	0,1 mg/m³

disodium tetraborate, anhydrous (1330-43-4)		
Belgium	OEL TWA	2 mg/m³
Belgium	OEL STEL	6 mg/m³
Croatia	GVI (OEL TWA) [1]	1 mg/m³
Denmark	OEL TWA [1]	1 mg/m³
France	VME (OEL TWA)	1 mg/m³
Greece	OEL TWA	10 mg/m³

disodium tetraborate, anhydrous (1330-43-4)		
Ireland	OEL TWA [1]	1 mg/m³ (Borates)
Ireland	OEL STEL	6 mg/m³ (calculated)
Portugal	OEL TWA	2 mg/m³ (inhalable fraction (Borate compounds, inorganic)
Portugal	OEL STEL	6 mg/m³ (inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	2 mg/m³
Spain	VLA-EC (OEL STEL)	6 mg/m³
United Kingdom	WEL TWA (OEL TWA) [1]	1 mg/m³
United Kingdom	WEL STEL (OEL STEL)	3 mg/m³ (calculated)
Norway	Grenseverdi (OEL TWA) [1]	1 mg/m³
Norway	Korttidsverdi (OEL STEL)	3 mg/m³ (value calculated)
Australia	OES TWA [1]	1 mg/m³
Canada (Quebec)	VECD (OEL STEL)	6 mg/m³ (inhalable dust (Borate, inorganic compounds)
Canada (Quebec)	VEMP (OEL TWA)	2 mg/m³ (inhalable dust (Borate, inorganic compounds)
USA - ACGIH	ACGIH OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)
USA - ACGIH	ACGIH OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)
USA - NIOSH	NIOSH REL TWA	1 mg/m³

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

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.

Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Breakthrough time : Not determined. 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): Safety glasses. tightly fitting safety goggles

Body protection : Wear suitable protective clothing

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: 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
Appearance	:	clear. Liquid.
Colour	:	Blue.
Odour	:	Characteristic.
Odour threshold	:	No data available
pH	:	9,4 – 10
pH solution	:	100 %
Relative evaporation rate (butylacetate=1)	:	No data available
Melting / freezing point	:	No data available
Freezing point	:	No data available
Initial boiling point and boiling range	:	195 °C
Flash point	:	111 °C Open cup
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	Not applicable,(Liquid)
Vapour pressure	:	0,05 mm Hg (20 °C)
Vapour density	:	2,1
Relative density	:	1,11 – 1,14
Solubility	:	No data available.
Partition coefficient n-octanol/water	:	No data available
Kinematic viscosity	:	No additional information available
Dynamic viscosity	:	No additional information 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	:	LEL: 3,2 %
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

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

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 : Harmful if swallowed.

ATE CLP (oral)	490,479 mg/kg bodyweight

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

2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL (111-46-6)	
LD50/oral/rat	12565 mg/kg
LD50 oral	12565 mg/kg
LD50/dermal/rabbit	11890 mg/kg
LD50 dermal	11890 ml/kg
LC50/inhalation/4h/rat	> 4600 mg/m³ (Exposure time: 4 h)

sodium nitrite (7632-00-0)	
LD50/oral/rat	85 mg/kg

sodium nitrite (7632-00-0)	
LC50/inhalation/4h/rat	5,5 mg/l/4h

disodium tetraborate, anhydrous (1330-43-4)	
LD50/oral/rat	2660 mg/kg
LD50 oral	2660 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50/inhalation/4h/rat	> 2 mg/m³ (Exposure time: 4 h)

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 : May damage fertility. May damage the unborn child.

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).

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

ES COMPLEAT EG CONCENTRATE	
Kinematic viscosity	No additional information available

Other adverse effects : May cause damage to organs through prolonged or repeated exposure. May damage fertility. May damage the unborn child.

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 adverse effects : May cause damage to organs through prolonged or repeated exposure,May damage fertility. May damage the unborn child.

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

ethanediol; ethylene glycol (107-21-1)	
LC50 - Fish [1]	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
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])
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])
LC50 - Fish [2]	0,092 – 0,13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	87 mg/l

disodium tetraborate, anhydrous (1330-43-4)	
LC50 - Fish [1]	340 mg/l (Exposure time: 96 h - Species: Limanda limanda)
EC50 - Crustacea [1]	1085 – 1402 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	158 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [2]	2,6 – 21,8 mg/l (Species: Pseudokirchneriella subcapitata [static])

12.2. Persistence and degradability

ES COMPLEAT EG CONCENTRATE	
Persistence and degradability	No data is available on the product itself.

12.3. Bioaccumulative potential

ES COMPLEAT EG CONCENTRATE	
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)

disodium tetraborate, anhydrous (1330-43-4)	
BCF - Fish [1]	(no evidence of bioaccumulation)
Partition coefficient n-octanol/water	-1,53 (at 22 °C (at pH 7.5)

12.4. Mobility in soil

ES COMPLEAT EG CONCENTRATE	
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 CONCENTRATE	
Results of PBT assessment	Contains no PBT/vPvB substances ≥ 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 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.

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
The following Waste Codes are only suggestions:
07 02 04* - other organic solvents, washing liquids and mother liquors
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
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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(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	ES COMPLEAT EG CONCENTRATE ; ethanediol; ethylene glycol ; 2,2' -OXYBISETHANOL, DIETHYLENE GLYCOL
30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	disodium tetraborate, anhydrous

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1330-43-4)

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

VOC content : No data available

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

German storage class (LGK) : LGK 12 - Non-combustible liquids

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

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 : disodium tetraborate, anhydrous is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : disodium tetraborate, anhydrous is listed

Denmark

Recommendations Danish Regulation : 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 required

SECTION 16: Other information

Indication of changes:

2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Extra phrases	Added	
2.3	ED text	Added	
4.2	Chronic symptoms	Added	
4.3	Indication of any immediate medical attention and special treatment needed	Added	
5.2	Special hazards arising from the substance or mixture	Modified	
5.3	Advice for firefighters	Modified	
7.2	Heat and ignition sources	Added	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	Added	
11.1	Reproductive toxicity	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Installations classées	Added	
15.1	German storage class (LGK)	Added	
15.1	Saneringsinspanningen	Removed	
15.1	Waterbezwaarlijkheid	Modified	

16	Other information	Added	

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.

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

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

Full text of H- and EUH-statements:

	Restricted to professional users

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.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
Ox. Sol. 3	Oxidising Solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
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]