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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 PG CONCENTRATE  
Product code : CC2830 (3.785 L); CC2831 (208 L Drum); CC2832 (Bulk); CC2849 (18.9 L Pail); CC2833 (1040 L Tote tanks); CC2751M; CC2753M; (208 L Drum); CC2853M; CC2832M (Bulk)  
Product group : Trade product  
Document no. : LT16590 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, Consumer 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

Cummins Filtration  
Entwistle Road  
Daventry,  
Northants, NN11 8NG

The United Kingdom  
T +44 (0)1788 853600

### 1.4. Emergency telephone number

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

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]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

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## 2.2. Label elements

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

Extra phrases : EUH210 - Safety data sheet available on request.

## 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

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

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propane-1,2-diol	CAS-No.: 57-55-6 EC-No.: 200-338-0	90 – 100	Not classified
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
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. In case of doubt or persistent symptoms, consult always a physician.

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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. Drink 1 or 2 glasses of 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 : Inhalation of vapours in high concentration may cause irritation of respiratory system.

Skin contact : May cause skin irritation in susceptible persons. Prolonged skin contact may defat the skin and produce dermatitis.

Eyes contact : May cause eye irritation with susceptible persons. The following symptoms may occur: erythema (redness). Pain .

Ingestion : May cause nausea, abdominal spasms and irritation of the mucous membranes. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

#### **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 (CO<sub>2</sub>), 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, CO<sub>2</sub>). Nitrogen oxides. Phosphorus compounds.

#### **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. 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.

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### 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 : Provide adequate ventilation. Stop leak if safe to do so. Dilute with plenty of water. 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 : Keep out of the reach of children. 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. 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

Technical measures : Keep out of the reach of children.  
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 : After use replace the closing cap immediately. Containers which are opened should be properly resealed and kept upright to prevent leakage.

Packaging materials : Keep only in the original container.

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#### 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


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

<b>disodium tetraborate, anhydrous (1330-43-4)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Dinatriumtetraborate (wasserfrei)
Remark	Fortpflanzungsgefährdend: F, D
Regulatory reference	BGBl. II Nr. 156/2021


<b>Belgium - Occupational Exposure Limits</b>	
Local name	Borate, composés inorganiques de # Boraat, anorganische verbindingen van
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	6 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

<b>Croatia - Occupational Exposure Limits</b>	
Local name	Dinatrijev tetraborat, bezvodni; borna kiselina, dinatrijeva sol
GVI (OEL TWA)	1 mg/m <sup>3</sup>
Remark	Repr 1B
OEL chemical category	Reproductive Toxin Category 1B
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)

<b>Denmark - Occupational Exposure Limits</b>	
Local name	Natriumtetraborat, vandfri
OEL TWA	1 mg/m <sup>3</sup>
OEL STEL	2 mg/m <sup>3</sup>
Regulatory reference	BEK nr 202 af 21/02/2023

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<b>disodium tetraborate, anhydrous (1330-43-4)</b>	
<b>France - Occupational Exposure Limits</b>	
Local name	Sodium (tétraborate de, anhydre) (Tétraborate de sodium anhydre)
VME (OEL TWA)	1 mg/m <sup>3</sup>
Remark	Valeurs recommandées/admises. Toxique pour la reproduction de catégorie 1B
OEL chemical category	Reproductive Toxin category 1B
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Βόρακας (άνυδρος)
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Hungary - Occupational Exposure Limits</b>	
OEL chemical category	Repr1B
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Borate compounds inorganic: Borates, tetra, sodium, anhydrous [Disodium tetraborate, anhydrous]
OEL TWA	1 mg/m <sup>3</sup> (Borates)
OEL STEL	6 mg/m <sup>3</sup> (calculated)
Remark	Repr.1B (Substances which are presumed human reproductive toxicants)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Boratos, compostos inorgânicos
OEL TWA	2 mg/m <sup>3</sup> (inhalable fraction (Borate compounds, inorganic))
OEL STEL	6 mg/m <sup>3</sup> (inhalable fraction)
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Spain - Occupational Exposure Limits</b>	
Local name	Borato de sodio, anhidro (Tetraborato de sodio, anhidro)
VLA-ED (OEL TWA)	2 mg/m <sup>3</sup>
VLA-EC (OEL STEL)	6 mg/m <sup>3</sup>

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**disodium tetraborate, anhydrous (1330-43-4)**

Remark	TR1B (Cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) n° 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
OEL chemical category	TR1B
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT

**United Kingdom - Occupational Exposure Limits**

Local name	Disodium tetraborate, anhydrous
WEL TWA (OEL TWA)	1 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	3 mg/m <sup>3</sup> (calculated)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

**Iceland - Occupational Exposure Limits**

Local name	Natriumtetrabórat, vatnsfrítt
OEL TWA	1 mg/m <sup>3</sup>
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)

**Norway - Occupational Exposure Limits**

Local name	Natriumtetraborater: Vannfritt
Grenseverdi (OEL TWA)	1 mg/m <sup>3</sup>
Korttidsverdi (OEL STEL)	3 mg/m <sup>3</sup> (value calculated)
Regulatory reference	FOR-2023-12-18-2278


**USA - ACGIH - Occupational Exposure Limits**

Local name	Sodium tetraborate, anhydrate
ACGIH OEL TWA	2 mg/m <sup>3</sup> (inhalable particulate matter (Borate compounds, inorganic))
ACGIH OEL STEL	6 mg/m <sup>3</sup> (inhalable particulate matter (Borate compounds, inorganic))
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024

**propane-1,2-diol (57-55-6)**


**Croatia - Occupational Exposure Limits**

Local name	Propane-1,2-diol
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<b>propane-1,2-diol (57-55-6)</b>	
GVI (OEL TWA)	474 mg/m <sup>3</sup> (total vapor and particles) 10 mg/m <sup>3</sup> (particles) 150 ppm
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Propane-1,2-diol [Propylene glycol]
OEL TWA	10 mg/m <sup>3</sup> (particulates) 470 mg/m <sup>3</sup> (total vapour and particulates) 150 ppm (total vapour and particulates)
OEL STEL	1410 mg/m <sup>3</sup> (calculated-particulates) 30 mg/m <sup>3</sup> (calculated) 450 ppm (calculated-total vapour and particulates)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Propilēnglikols (1,2-propāndiols)
OEL TWA	7 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Propilenglikolis
IPRV (OEL TWA)	7 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Poland - Occupational Exposure Limits</b>	
Local name	Propano-1,2-diol
NDS (OEL TWA)	100 mg/m <sup>3</sup> (vapor and 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.
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Propane-1,2-diol
WEL TWA (OEL TWA)	474 mg/m <sup>3</sup> (total vapour and particulates) 10 mg/m <sup>3</sup> (particulates) 150 ppm (total vapour and particulates)
WEL STEL (OEL STEL)	1422 mg/m <sup>3</sup> (calculated-total vapour and particulates) 30 mg/m <sup>3</sup> (calculated-particulate) 450 ppm (calculated-total vapour and particulates)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE



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<b>propane-1,2-diol (57-55-6)</b>	
<b>Norway - Occupational Exposure Limits</b>	
Local name	Propan-1,2-diol
Grenseverdi (OEL TWA)	79 mg/m <sup>3</sup>
	25 ppm
Korttidsverdi (OEL STEL)	118,5 mg/m <sup>3</sup> (value calculated)
	37,5 ppm (value calculated)
Regulatory reference	FOR-2023-12-18-2278

### 8.1.2. Recommended monitoring procedures

<b>Monitoring methods</b>	
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. Thickness : Not determined. Breakthrough time : 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 141). 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	: weakly.
Odour threshold	: No data available
Melting / freezing point	: No data available
Freezing point	: Not available
Initial boiling point and boiling range	: 188 °C
Flammability	: Not applicable,liquid
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 102,8 °C COC
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: 11 – 11,6 (100%)
Kinematic viscosity	: No additional information available
Dynamic viscosity	: No additional information available
Solubility	: Water: Completely soluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water	: No data available
Vapour pressure	: 0,07 mmHg (20°C)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1,04 – 1,07

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Vapour density : 2,62  
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

No dangerous reactions known under normal conditions of use. Hazardous polymerisation does not occur.

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


#### sodium nitrite (7632-00-0)

LD50/oral/rat 85 mg/kg (Source: JAPAN\_GHS)

LC50/inhalation/4h/rat 5,5 mg/l/4h

#### disodium tetraborate, anhydrous (1330-43-4)

LD50/oral/rat 2660 mg/kg (Source: JAPAN\_GHS)

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disodium tetraborate, anhydrous (1330-43-4)	
LD50 oral	2660 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg (Source: ECHA_API)
LD50 dermal	> 2000 mg/kg
LC50/inhalation/4h/rat	> 2 mg/m <sup>3</sup> (Exposure time: 4 h Source: NLM_HSDb)

propane-1,2-diol (57-55-6)	
LD50/oral/rat	20 g/kg (Source: NLM_CIP)
LD50/dermal/rabbit	20800 mg/kg (Source: NLM_CIP)

Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 11 – 11,6 (100%)
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 11 – 11,6 (100%)
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	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity	No additional information available

## 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 %
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### 11.2.2. Other information

Other information	:	Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4
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## SECTION 12: Ecological information

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### 12.1. Toxicity

Environmental properties	: No data is available on the product itself. Should not be released into the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<b>sodium nitrite (7632-00-0)</b>	
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

<b>disodium tetraborate, anhydrous (1330-43-4)</b>	
LC50 - Fish [1]	340 mg/l (Exposure time: 96 h - Species: Limanda limanda Source: IUCLID)
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])

<b>propane-1,2-diol (57-55-6)</b>	
LC50 - Fish [1]	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)
LC50 - Fish [2]	41 – 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 96h - Algae [1]	19000 mg/l (Species: Pseudokirchneriella subcapitata)


### 12.2. Persistence and degradability

<b>ES COMPLEAT PG CONCENTRATE</b>	
Persistence and degradability	The product itself has not been tested.

### 12.3. Bioaccumulative potential

<b>ES COMPLEAT PG CONCENTRATE</b>	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

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

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

<b>propane-1,2-diol (57-55-6)</b>	
BCF - Fish [1]	(1 dimensionless)
Partition coefficient n-octanol/water	-14

#### **12.4. Mobility in soil**

<b>ES COMPLEAT PG CONCENTRATE</b>	
Mobility in soil	No data available
Ecology - soil	The product itself has not been tested.

#### **12.5. Results of PBT and vPvB assessment**

<b>ES COMPLEAT PG CONCENTRATE</b>	
Results of PBT assessment	Not applicable

#### **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.


### **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.

Additional information : In accordance with local and national regulations.

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  
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 .

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#### SECTION 14: Transport information

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

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

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

#### 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

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
30.	disodium tetraborate, anhydrous	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.

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**REACH Annex XIV (Authorisation List)**

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

**REACH Candidate List (SVHC)**

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

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


**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**



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#### 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	: disodium tetraborate, anhydrous is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: disodium tetraborate, anhydrous is 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
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#### 15.2. Chemical safety assessment

Not required

### SECTION 16: Other information


Indication of changes:  
SECTION : 1, 3, 6, 8, 9, 11, 14, 15, 16.

Section	Company	Modified	
1.3	Company	Modified	
2.2	Extra phrases	Added	
2.3	ED text	Added	
4.3	Indication of any immediate medical attention and special treatment needed	Added	
5.2	Specific hazards	Modified	
5.3	Firefighting	Modified	

	instructions		
5.3	Protection during firefighting	Added	
5.3	Other information	Added	
7.2	Technical measures	Modified	
7.2	Special rules on packaging	Added	
7.2	Packaging materials	Added	
7.3	Specific end use(s)	Added	
8.2	Hand protection	Modified	
8.2	Body protection	Added	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	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	Waterbezwaarlijkheid	Modified	

**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

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	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 : ECHA (European Chemicals Agency). European Chemicals Bureau SDS datasheet  
Supplier No LT16590 EU reviewed 19/02/2010.

Training advice : 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. Training staff on good practice.

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
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
Ox. Sol. 3	Oxidising Solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B

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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