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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Other means of identification:

UFI: UK31-U0TA-7008-YUM1

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

Relevant uses: Fertilizer. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

E.Marker A/S
Okslundvej 8
DK-6330, Padborg, Denmark
Tel: +45 74 67 08 08 Fax: +45 79 30 41 90 Email: info@emarker.dk

1.4 Emergency telephone number: 45 74 67 08 08 (office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Corr. 1: Skin corrosion, Category 1, H314

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Eye Dam. 1: Causes serious eye damage.

Skin Corr. 1: Causes severe skin burns and eye damage.

Skin Sens. 1A: May cause an allergic skin reaction.

Precautionary statements:

Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

Contains 1,2-benzisothiazol-3(2H)-one, Clove, ext., Cymbopogon winterianus, oil, Tea tree oil.

Substances that contribute to the classification

Zinc Sulphate Hexahydrate; D-Glucopyranose, oligomers, decyl octyl glycosides; Phosphoric acid; 2-methylisothiazol-3(2H)-one

Authorized substances:

Citric Acid Monohydrate (01-2119457026-42-XXXX)

UFI: UK31-U0TA-7008-YUM1

2.3 Other hazards:

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of inorganic substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 7720-78-7 EC: 231-753-5 Index: 026-003-01-4 REACH: 01-2119513203-57-XXXX	Iron (II) sulfate⁽¹⁾ Regulation 1272/2008	ATP ATP01 Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	5 - <25 %
CAS: 13986-24-8 EC: 604-163-4 Index: Non-applicable REACH: Non-applicable	Zinc Sulphate Hexahydrate⁽¹⁾ Regulation 1272/2008	Self-classified Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318 - Danger	1 - <5 %
CAS: 10034-96-5 EC: 232-089-9 Index: Non-applicable REACH: 01-2119456624-35-XXXX	manganese sulphate · (H2O)⁽¹⁾ Regulation 1272/2008	Self-classified Aquatic Chronic 2: H411; STOT RE 2: H373 - Warning	1 - <5 %
CAS: 68515-73-1 EC: 500-220-1 Index: Non-applicable REACH: 01-2119488530-36-XXXX	D-Glucopyranose, oligomers, decyl octyl glycosides⁽¹⁾ Regulation 1272/2008	Self-classified Eye Dam. 1: H318 - Danger	1 - <5 %
CAS: 5949-29-1 EC: 611-842-9 Index: Non-applicable REACH: Non-applicable	Citric Acid Monohydrate⁽¹⁾ Regulation 1272/2008	Self-classified Eye Irrit. 2: H319 - Warning	1 - <5 %
CAS: 7664-38-2 EC: 231-633-2 Index: 015-011-00-6 REACH: 01-2119485924-24-XXXX	Phosphoric acid⁽²⁾ Regulation 1272/2008	ATP CLP00 Skin Corr. 1B: H314 - Danger	0.3 - <1 %
CAS: 91771-61-8 EC: 294-954-7 Index: Non-applicable REACH: 01-2120741487-48-XXXX	Cymbopogon winterianus, oil⁽¹⁾ Regulation 1272/2008	Self-classified Acute Tox. 4: H302; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	<0.3 %
CAS: 85085-48-9 EC: 285-377-1 Index: Non-applicable REACH: 01-2120743651-57-XXXX	Tea tree oil⁽¹⁾ Regulation 1272/2008	Self-classified Acute Tox. 4: H302; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	<0.3 %
CAS: 84961-50-2 EC: 284-638-7 Index: Non-applicable REACH: Non-applicable	Clove, ext.⁽¹⁾ Regulation 1272/2008	Self-classified Asp. Tox. 1: H304; Eye Irrit. 2: H319; Skin Sens. 1: H317 - Danger	<0.3 %
CAS: 52-51-7 EC: 200-143-0 Index: 603-085-00-8 REACH: Non-applicable	bronopol (INN)⁽¹⁾ Regulation 1272/2008	ATP ATP01 Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	<0.3 %
CAS: 2634-33-5 EC: 220-120-9 Index: 613-088-00-6 REACH: 01-2120761540-60-XXXX	1,2-benzisothiazol-3(2H)-one⁽¹⁾ Regulation 1272/2008	ATP CLP00 Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	<0.3 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Substance with a Union workplace exposure limit

** Changes with regards to the previous version

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

Identification	Chemical name/Classification		Concentration
CAS: 2682-20-4 EC: 220-239-6 Index: 613-326-00-9 REACH: 01-2120764690-50-XXXX	2-methylisothiazol-3(2H)-one ⁽¹⁾ Regulation 1272/2008	Acute Tox. 2: H330; Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317; EUH071 - Danger	ATP ATP13 <0.3 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

⁽²⁾ Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	M-factor
Zinc Sulphate Hexahydrate	Acute 1
CAS: 13986-24-8 EC: 604-163-4	Chronic 1
bronopol (INN)	Acute 10
CAS: 52-51-7 EC: 200-143-0	Chronic 1
2-methylisothiazol-3(2H)-one	Acute 10
CAS: 2682-20-4 EC: 220-239-6	Chronic 1

Identification	Specific concentration limit
Iron (II) sulfate CAS: 7720-78-7 EC: 231-753-5	% (w/w) >=25: Skin Irrit. 2 - H315
Phosphoric acid CAS: 7664-38-2 EC: 231-633-2	% (w/w) >=25: Skin Corr. 1B - H314 10<= % (w/w) <25: Skin Irrit. 2 - H315 % (w/w) >=25: Eye Dam. 1 - H318 10<= % (w/w) <25: Eye Irrit. 2 - H319
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	% (w/w) >=0.05: Skin Sens. 1 - H317
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	% (w/w) >=0.0015: Skin Sens. 1A - H317

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
Zinc Sulphate Hexahydrate CAS: 13986-24-8 EC: 604-163-4	LD50 oral	500 mg/kg	Fish
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Iron (II) sulfate CAS: 7720-78-7 EC: 231-753-5	LD50 oral	1480 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Tea tree oil CAS: 85085-48-9 EC: 285-377-1	LD50 oral	1900 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	LD50 oral	500 mg/kg	Rat
	LD50 dermal	1600 mg/kg	Rabbit
	LC50 inhalation	Not relevant	
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	LD50 oral	120 mg/kg	Rat
	LD50 dermal	242 mg/kg	Rat
	LC50 inhalation	Not relevant	

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification		Occupational exposure limits	
Phosphoric acid		WEL (8h)	1 mg/m ³
CAS: 7664-38-2	EC: 231-633-2	WEL (15 min)	2 mg/m ³
manganese sulphate · (H ₂ O)		WEL (8h)	0.05 mg/m ³
CAS: 10034-96-5	EC: 232-089-9	WEL (15 min)	

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Iron (II) sulfate CAS: 7720-78-7 EC: 231-753-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2.8 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
manganese sulphate · (H ₂ O) CAS: 10034-96-5 EC: 232-089-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.004 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	595000 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	420 mg/m ³	Not relevant
Phosphoric acid CAS: 7664-38-2 EC: 231-633-2	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	2 mg/m ³	10.7 mg/m ³	1 mg/m ³
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	9.69 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2.73 mg/m ³	Not relevant
Tea tree oil CAS: 85085-48-9 EC: 285-377-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	4.356 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.658 mg/m ³	Not relevant
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3.5 mg/m ³	2.5 mg/m ³
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.966 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	6.81 mg/m ³	Not relevant
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	0.043 mg/m ³	Not relevant	0.021 mg/m ³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Iron (II) sulfate CAS: 7720-78-7 EC: 231-753-5	Oral	20 mg/kg	Not relevant	0.28 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1.4 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
manganese sulphate · (H ₂ O) CAS: 10034-96-5 EC: 232-089-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.002 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.043 mg/m ³	Not relevant
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	Oral	Not relevant	Not relevant	35.7 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	357000 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	124 mg/m ³	Not relevant
Phosphoric acid CAS: 7664-38-2 EC: 231-633-2	Oral	Not relevant	Not relevant	0.1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	4.57 mg/m ³	0.36 mg/m ³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification	Short exposure		Long exposure	
	Systemic	Local	Systemic	Local
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	Oral	Not relevant	Not relevant	0.46 mg/kg
	Dermal	Not relevant	Not relevant	5.81 mg/kg
	Inhalation	Not relevant	Not relevant	0.81 mg/m³
Tea tree oil CAS: 85085-48-9 EC: 285-377-1	Oral	Not relevant	Not relevant	0.067 mg/kg
	Dermal	Not relevant	Not relevant	1.556 mg/kg
	Inhalation	Not relevant	Not relevant	0.296 mg/m³
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	Oral	0.5 mg/kg	Not relevant	0.18 mg/kg
	Dermal	Not relevant	Not relevant	0.7 mg/kg
	Inhalation	Not relevant	Not relevant	0.6 mg/m³
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	Oral	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.345 mg/kg
	Inhalation	Not relevant	Not relevant	1.2 mg/m³
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Oral	0.053 mg/kg	Not relevant	0.027 mg/kg
	Dermal	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	0.043 mg/m³	Not relevant
PNEC:				
manganese sulphate · (H2O) CAS: 10034-96-5 EC: 232-089-9	STP	56 mg/L	Fresh water	0.03 mg/L
	Soil	25.1 mg/kg	Marine water	0 mg/L
	Intermittent	0.088 mg/L	Sediment (Fresh water)	0.011 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.001 mg/kg
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	STP	560 mg/L	Fresh water	0.176 mg/L
	Soil	0.654 mg/kg	Marine water	0.018 mg/L
	Intermittent	0.27 mg/L	Sediment (Fresh water)	1.516 mg/kg
	Oral	0.11111 g/kg	Sediment (Marine water)	0.152 mg/kg
Citric Acid Monohydrate CAS: 5949-29-1 EC: 611-842-9	STP	1000 mg/L	Fresh water	0.44 mg/L
	Soil	33.1 mg/kg	Marine water	0.044 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	34.6 mg/kg
	Oral	Not relevant	Sediment (Marine water)	3.46 mg/kg
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	STP	10 mg/L	Fresh water	0.0055 mg/L
	Soil	0.15524 mg/kg	Marine water	0.00055 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0.79255 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.079255 mg/kg
Tea tree oil CAS: 85085-48-9 EC: 285-377-1	STP	2.57 mg/L	Fresh water	0.008 mg/L
	Soil	7.42 mg/kg	Marine water	0.001 mg/L
	Intermittent	0.077 mg/L	Sediment (Fresh water)	37.11 mg/kg
	Oral	Not relevant	Sediment (Marine water)	3.711 mg/kg
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	STP	0.43 mg/L	Fresh water	0.01 mg/L
	Soil	0.5 mg/kg	Marine water	0.001 mg/L
	Intermittent	0.003 mg/L	Sediment (Fresh water)	0.041 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.003 mg/kg
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	STP	1.03 mg/L	Fresh water	0.00403 mg/L
	Soil	3 mg/kg	Marine water	0.000403 mg/L
	Intermittent	0.0011 mg/L	Sediment (Fresh water)	0.0499 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.00499 mg/kg
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	STP	0.23 mg/L	Fresh water	0.00339 mg/L
	Soil	0.047 mg/kg	Marine water	0.00339 mg/L
	Intermittent	0.00339 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant

8.2 Exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Not available
Colour:	Green
Odour:	Undefined
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	Not relevant *
Vapour pressure at 20 °C:	Not relevant *
Vapour pressure at 50 °C:	Not relevant *
Evaporation rate at 20 °C:	Not relevant *

Product description:

Density at 20 °C:	Not relevant *
Relative density at 20 °C:	1.23 - 1.27
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	1.5 - 2.5
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

Flammability:

Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	Not relevant *
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Particle characteristics:

Median equivalent diameter:	Non-applicable
-----------------------------	----------------

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

Other safety characteristics:

Surface tension at 20 °C:	Not relevant *
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*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index: Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: Mixture based on inorganic substances.

SECTION 11: TOXICOLOGICAL INFORMATION **

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Not relevant

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Citric Acid Monohydrate CAS: 5949-29-1 EC: 611-842-9	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	Rat
	LC50 inhalation		
Iron (II) sulfate CAS: 7720-78-7 EC: 231-753-5	LD50 oral	1480 mg/kg (ATEi)	Rat
	LD50 dermal		
	LC50 inhalation		
manganese sulphate · (H ₂ O) CAS: 10034-96-5 EC: 232-089-9	LD50 oral	>2000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Zinc Sulphate Hexahydrate CAS: 13986-24-8 EC: 604-163-4	LD50 oral	500 mg/kg	Fish
	LD50 dermal		
	LC50 inhalation		
Phosphoric acid CAS: 7664-38-2 EC: 231-633-2	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	2470 mg/kg	Rabbit
	LC50 inhalation		
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Tea tree oil CAS: 85085-48-9 EC: 285-377-1	LD50 oral	1900 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	LD50 oral	500 mg/kg	Rat
	LD50 dermal	1600 mg/kg	Rabbit
	LC50 inhalation		

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Identification	Acute toxicity		Genus
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	LD50 oral	120 mg/kg	Rat
	LD50 dermal	242 mg/kg	Rat
	LC50 inhalation		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Zinc Sulphate Hexahydrate CAS: 13986-24-8 EC: 604-163-4	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
manganese sulphate · (H ₂ O) CAS: 10034-96-5 EC: 232-089-9	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	LC50	126 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	151 mg/L (48 h)	Acartia tonsa	Crustacean
	EC50	27 mg/L (72 h)	Scenedesmus subspicatus	Algae
Citric Acid Monohydrate CAS: 5949-29-1 EC: 611-842-9	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	120 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
Tea tree oil CAS: 85085-48-9 EC: 285-377-1	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	LC50	4.77 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	0.934 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		

Chronic toxicity:

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Concentration		Species	Genus
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	NOEC	1.8 mg/L	Danio rerio	Fish
	NOEC	2 mg/L	Daphnia magna	Crustacean
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	NOEC	21.5 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.27 mg/L	Daphnia magna	Crustacean
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	NOEC	4.93 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.044 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
Citric Acid Monohydrate CAS: 5949-29-1 EC: 611-842-9	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	5 days
	BOD5/COD	Not relevant	% Biodegradable	72 %
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	80 %
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	55.8 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Citric Acid Monohydrate CAS: 5949-29-1 EC: 611-842-9	BCF	3
	Pow Log	-1.64
	Potential	Low
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	BCF	
	Pow Log	4.95
	Potential	
bronopol (INN) CAS: 52-51-7 EC: 200-143-0	BCF	0.6
	Pow Log	-0.64
	Potential	Low
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	BCF	2
	Pow Log	1.45
	Potential	Low
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	BCF	
	Pow Log	-0.49
	Potential	

12.4 Mobility in soil:

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Absorption/desorption		Volatility	
D-Glucopyranose, oligomers, decyl octyl glycosides CAS: 68515-73-1 EC: 500-220-1	Koc	50	Henry	1.2E-8 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Not relevant	Moist soil	No
Citric Acid Monohydrate CAS: 5949-29-1 EC: 611-842-9	Koc	3.1	Henry	4.3E-14 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Not relevant	Moist soil	No
Cymbopogon winterianus, oil CAS: 91771-61-8 EC: 294-954-7	Koc	1405	Henry	Not relevant
	Conclusion	Low	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2-methylisothiazol-3(2H)-one CAS: 2682-20-4 EC: 220-239-6	Koc	Not relevant	Henry	0E+0 Pa·m ³ /mol
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
06 10 02*	wastes containing hazardous substances	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP8 Corrosive

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number:	UN3264
14.2 UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid; Zinc Sulphate Hexahydrate)
14.3 Transport hazard class(es):	8
Labels:	8
14.4 Packing group:	II
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	
Special regulations:	274
Tunnel restriction code:	E
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



14.1 UN number or ID number:	UN3264
14.2 UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid; Zinc Sulphate Hexahydrate)
14.3 Transport hazard class(es):	8
Labels:	8
14.4 Packing group:	II
14.5 Marine pollutant:	Yes
14.6 Special precautions for user	
Special regulations:	274
EmS Codes:	F-A, S-B
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
Segregation group:	SGG1
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



14.1 UN number or ID number:	UN3264
14.2 UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid; Zinc Sulphate Hexahydrate)
14.3 Transport hazard class(es):	8
Labels:	8
14.4 Packing group:	II
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 1,2-benzisothiazol-3(2H)-one, bronopol (INN), 2-methylisothiazol-3(2H)-one.

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SECTION 15: REGULATORY INFORMATION (continued)

- Article 95, REGULATION (EU) No 528/2012: *bronopol (INN) (52-51-7) - PT: (2,6,11,12,22) ; 1,2-benzisothiazol-3(2H)-one (2634-33-5) - PT: (2,6,9,11,12,13) ; 2-methylisothiazol-3(2H)-one (2682-20-4) - PT: (6,11,12,13)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200	500

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits
The Waste Regulations 2011, 2011 No. 988
Regulation (EU) 2019/1009 of the European Parliament and of the Council of 5 June 2019 laying down rules on the making available on the market of EU fertilising products.

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances

Citric Acid Monohydrate (5949-29-1)

Content of the 3rd section presenting modifications (SECTION 3):

- Citric Acid Monohydrate (5949-29-1): Authorisation granted (Article 60, REACH)

Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 2: H330 - Fatal if inhaled.
Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Eye Dam. 1: Calculation method
Aquatic Chronic 2: Calculation method
Skin Sens. 1A: Calculation method
Skin Corr. 1: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

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