

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : PURITI STARCH SOLUTION  
Product code : 429  
Type of product : Detergent  
Product group : Mixture

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

##### Relevant identified uses

Main use category : Professional use, Industrial use  
Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Laundry finish (includes antistats, laundry starches, ironing aids)

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Christeyns Professional Hygiene UK Ltd  
Clover House  
Macclesfield Road  
SK23 7DQ Whaley Bridge, Derbyshire  
United Kingdom  
T 01663 733114, F 01663 733115  
[info.cph.uk@christeyns.com](mailto:info.cph.uk@christeyns.com), [www.christeyns-ph.co.uk](http://www.christeyns-ph.co.uk)

##### Supplier

Christeyns NV  
Afrikalaan 182  
9000 GENT  
Belgium  
T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44  
[info@christeyns.be](mailto:info@christeyns.be), [www.christeyns.com](http://www.christeyns.com)

#### 1.4. Emergency telephone number

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)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, H412  
Category 3

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
EUH-statements : EUH208 - Contains METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE, OCTYLISOTHIAZOLINONE. May produce an allergic reaction.

#### 2.3. Other hazards

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 %

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Maize starch substance with national workplace exposure limit(s) (BE, CZ, ES, GB, GR, IE, PT, CH)	CAS-no: 9005-25-8 EC-No.: 232-679-6	30 – 60	Not classified
2,2'-oxybisethanol; diethylene glycol substance with national workplace exposure limit(s) (AT, BG, DE, DK, EE, GB, HR, IE, LT, LV, NL, PL, RO, SE, SI, SK, IS, MK, CH)	CAS-no: 111-46-6 EC-No.: 203-872-2 EC Index-No.: 603-140-00-6 REACH-no: 01-2119457857-21	3 – 5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS-no: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	0.001 – 0.01	Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.21 mg/l) Acute Tox. 4 (Oral), H302 (ATE=450 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
octhilinone (ISO); 2-octyl-2H-isothiazol-3-one substance with national workplace exposure limit(s) (AT, DE, SI, MK, CH)	CAS-no: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	0.001 – 0.01	Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.27 mg/l) Acute Tox. 3 (Dermal), H311 (ATE=311 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=125 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE substance with national workplace exposure limit(s) (PL, CH)	CAS-no: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5	0.001 – 0.01	Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071
2-methylisothiazol-3(2H)-one substance with national workplace exposure limit(s) (AT)	CAS-no: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	0.001 – 0.01	Acute Tox. 2 (Inhalation), H330 (ATE=0.134 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=120 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS-no: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	(0.036 ≤ C ≤ 100) Skin Sens. 1A; H317

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
octhiline (ISO); 2-octyl-2H-isothiazol-3-one	CAS-no: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE	CAS-no: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.6 ≤ C ≤ 100) Eye Dam. 1; H318 (0.6 ≤ C ≤ 100) Skin Corr. 1C; H314
2-methylisothiazol-3(2H)-one	CAS-no: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects eyes : May cause eye irritation. Redness.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container tightly closed.

Packaging materials

: glass. polyethylene. stainless steel.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

2,2'-oxybisethanol; diethylene glycol (111-46-6)	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Diethylene glycol [2,2'-Oxydiethanol]
OEL TWA	100 mg/m <sup>3</sup>
	23 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2,2'-Oxydiethanol
WEL TWA (OEL TWA)	101 mg/m <sup>3</sup>
	23 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Maize starch (9005-25-8)</b>	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Starch
OEL TWA	10 mg/m <sup>3</sup> total inhalable dust
	4 mg/m <sup>3</sup> respirable dust
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Starch
WEL TWA (OEL TWA)	4 mg/m <sup>3</sup> respirable
	10 mg/m <sup>3</sup> total inhalable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

#### 8.2. Exposure controls

##### Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Environmental exposure controls

##### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state

: Liquid

Colour

: Yellow.

Physical state/form

: Liquid.

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Odour	: Characteristic.
Odour threshold	: Not available
Melting point/range	: 0 °C
Freezing point	: Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range	: 100 °C
Flammability	: Non flammable.
Lower explosion limit	: Constituents do not contain chemical groups associated with explosivity
Upper explosion limit	: Constituents do not contain chemical groups associated with explosivity
Flash point	: Not determined as it is not relevant for the characterization of the product
Autoignition temperature	: Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required.
Decomposition temperature	: Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.
pH	: 6 – 8
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 1500 – 1900 cP at 20 °C
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.12 – 1.18 g/cm <sup>3</sup>
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

LD50 oral rat	12565 mg/kg
LD50 oral	19600 mg/kg bodyweight
LD50 dermal rabbit	11890 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	130 mg/l

#### METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)

LD50 oral rat	105 mg/kg Source: US EPA
LD50 dermal rat	> 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	200 mg/kg Source: US EPA

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<b>METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)</b>	
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l Source: US EPA
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
LD50 oral rat	1020 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)</b>	
LD50 oral rat	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	550 mg/kg bodyweight
LD50 dermal rabbit	690 mg/kg Source: NLM
LD50 dermal	690 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	0.586 mg/l Source: NITE
Skin corrosion/irritation	: Not classified pH: 6 – 8
Additional information	: Based on available data, the classification criteria are not met
<b>Maize starch (9005-25-8)</b>	
pH	6 – 7.5 Source: GESTIS
<b>METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)</b>	
pH	3.43 Temp.: 20 °C Concentration: 10 g/L
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
Serious eye damage/irritation	: Not classified pH: 6 – 8
Additional information	: Based on available data, the classification criteria are not met
<b>Maize starch (9005-25-8)</b>	
pH	6 – 7.5 Source: GESTIS
<b>METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)</b>	
pH	3.43 Temp.: 20 °C Concentration: 10 g/L
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
<b>2,2' -oxybisethanol; diethylene glycol (111-46-6)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight Animal: rat, Animal sex: female
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
NOAEL (animal/female, F0/P)	112 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/female, F1)	56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
STOT-single exposure	: Not classified

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Additional information : Based on available data, the classification criteria are not met

### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

NOEL (oral, rat) 936 mg/kg bodyweight

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

LOEL (oral, rat, 90 days) 40000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)

### METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)

LOEL (dermal, rat/rabbit, 90 days) 0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

## 11.2. Information on other hazards

### Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

### 2,2' -oxybisethanol; diethylene glycol (111-46-6)

LC50 - Fish [1] 75200 mg/l Test organisms (species): Pimephales promelas

EC50 - Crustacea [1] 48900 mg/l Daphnia magna (Water flea)

EC50 - Other aquatic organisms [1] > 10000 mg/l waterflea

EC50 96h - Algae [1] 6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

EC50 96h - Algae [2] 9362 mg/l Test organisms (species): other:

NOEC (chronic) ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

NOEC chronic crustacea > 15000 mg/l Daphnia magna (Water flea); 21 days

### METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)

LC50 - Fish [1] 0.19 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

LC50 - Fish [2] 0.28 mg/l Test organisms (species): Lepomis macrochirus

EC50 - Crustacea [1] 0.16 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] 0.048 mg/l Pseudokirchneriella subcapitata

NOEC (chronic) 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC chronic fish 0.098 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'

NOEC chronic crustacea 0.004 mg/l daphnia

NOEC chronic algae 0.0012 mg/l Pseudokirchneriella subcapitata

### 2-methylisothiazol-3(2H)-one (2682-20-4)

LC50 - Fish [1] 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

LC50 - Fish [2] 5.45 mg/l (Danio rerio)

EC50 - Crustacea [1] 1.6 mg/l Test organisms (species): Daphnia magna

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<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
EC50 - Crustacea [2]	0.168 mg/l (Daphnia) (OECD 202)
EC50 - Other aquatic organisms [1]	0.0695 mg/l (Skeletonema costatum)
EC50 72h - Algae [1]	0.0157 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC chronic algae	0.03 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
LC50 - Fish [1]	≈ 16.7 mg/l Test organisms (species): Cyprinodon variegatus
LC50 - Fish [2]	2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Other aquatic organisms [1]	2.2 mg/l (rainbow trout) (OECD 203)
EC50 - Crustacea [1]	2.94 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	2.9 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	3.27 mg/l (Daphnia) (OECD 202)
EC50 72h - Algae [1]	0.11 mg/l Selenastrum capricornutum
NOEC chronic fish	0.21 mg/l Rainbow trout
NOEC chronic crustacea	1.2 mg/l daphnia
NOEC chronic algae	0.04 mg/l Selenastrum capricornutum
<b>octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)</b>	
LC50 - Fish [1]	0.122 mg/l Test organisms (species):
LC50 - Fish [2]	0.2 mg/l (rainbow trout) (OECD 203)
EC50 - Crustacea [1]	2.6 mg/l (Daphnia) (OECD 202)
EC50 96h - Algae [1]	0.15 mg/l Test organisms (species):
<b>12.2. Persistence and degradability</b>	
<b>PURITI STARCH SOLUTION</b>	
Persistence and degradability	Biodegradable.
<b>2,2' -oxybisethanol; diethylene glycol (111-46-6)</b>	
Biodegradation	90 – 100 % 28 days, OECD 301 A
<b>METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)</b>	
Biodegradation	> 60 % OECD 301 D
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
Persistence and degradability	Rapidly degradable
<b>octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)</b>	
Persistence and degradability	Rapidly degradable
<b>12.3. Bioaccumulative potential</b>	
<b>PURITI STARCH SOLUTION</b>	
Bioaccumulative potential	No bioaccumulation.
<b>2,2' -oxybisethanol; diethylene glycol (111-46-6)</b>	
BCF - Fish [1]	100 Leuciscus melatonus, 3 days
Log Pow	-1.98
<b>METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)</b>	
Bioconcentration factor (BCF REACH)	3.16
Partition coefficient n-octanol/water (Log Kow)	0.75
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
Bioconcentration factor (BCF REACH)	3.16

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<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
Log Pow	-0.49
Partition coefficient n-octanol/water (Log Kow)	≤ 0.32
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
BCF - Fish [1]	6.95 OECD 305
Log Pow	0.7
Partition coefficient n-octanol/water (Log Kow)	0.7 OECD 117
<b>octhlinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)</b>	
Partition coefficient n-octanol/water (Log Kow)	2.92 (n-octanol/water)
<b>12.4. Mobility in soil</b>	
<b>METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE (55965-84-9)</b>	
Mobility in soil	12.08 Source: EPISUITE
<b>2-methylisothiazol-3(2H)-one (2682-20-4)</b>	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.88
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.15
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>PURITI STARCH SOLUTION</b>	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
<b>12.6. Endocrine disrupting properties</b>	
No additional information available	
<b>12.7. Other adverse effects</b>	
<b>PURITI STARCH SOLUTION</b>	
Other information	Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Waste / unused products	: Avoid release to the environment.
HP Code	: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
Not regulated for transport		
<b>14.2. UN proper shipping name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

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

##### REACH Candidate List (SVHC)

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

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Detergent Regulation (EC 648/2004)

Labelling of contents	
Component	%
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE	
BENZISOTHIAZOLINONE	
OCTYLISOTHIAZOLINONE	

##### Explosives Precursors Regulation (EU 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 (EC 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)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

### Full text of H- and EUH-statements:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
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Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
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
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE, OCTYLISOTHIAZOLINONE. May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 3	H412	Calculation method

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.