

Safety Data Sheet

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

Date first issue: 01/08/2008 Review date: 21/05/2024 Supersedes version of: 02/03/2023 Version: 8.0

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

1.2.1. 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)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ManufacturerSupplierChristeyns Professional Hygiene UK LtdChristeyns NVClover HouseAfrikalaan 182Macclesfield Road9000 GENT

Macclesfield Road 9000 GEN I
SK23 7DQ Whaley Bridge, Derbyshire Belgium
United Kingdom T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44

T 01663 733114, F 01663 733115 info.cph.uk@christeyns.com, www.christeyns-ph.co.uk

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]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

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 BENZISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE

(AND) METHYLISOTHIAZOLINONE. May produce an allergic reaction.

info@christeyns.be, www.christeyns.com

EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Starch substance with national workplace exposure limit(s) (BE, ES, GB, GR, IE, PT, CH)	CAS-no: 9005-25-8 Einecs nr: 232-679-6 EG annex nr: 232-679-6	5 – 10	Not classified
1,2-benzisothiazol-3(2H)-one (BIT)	CAS-no: 2634-33-5 Einecs nr: 220-120-9 EG annex nr: 613-088-00-6 REACH-no: 01-2120761540-60	<1	Acute Tox. 4 (Oral), H302 (ATE=490 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) substance with national workplace exposure limit(s) (CH)	CAS-no: 55965-84-9 EG annex nr: 613-167-00-5 REACH-no: 01-2120764691- 48	< 1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 (ATE=78 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=64 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

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
1,2-benzisothiazol-3(2H)-one (BIT)	CAS-no: 2634-33-5 Einecs nr: 220-120-9 EG annex nr: 613-088-00-6 REACH-no: 01-2120761540- 60	(0.05 ≤ C ≤ 100) Skin Sens. 1, H317
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3- one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-no: 55965-84-9 EG annex nr: 613-167-00-5 REACH-no: 01-2120764691- 48	$(0.0015 \le C \le 100)$ Skin Sens. 1A, H317 $(0.06 \le C < 0.6)$ Eye Irrit. 2, H319 $(0.06 \le C < 0.6)$ Skin Irrit. 2, H315 $(0.6 \le C \le 100)$ Eye Dam. 1, H318 $(0.6 \le C \le 100)$ Skin Corr. 1C, H314

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.

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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

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. 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.

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

8.1.1 National occupational exposure and biological limit values

Starch (9005-25-8)		
Ireland - Occupational Exposure Limits		
Local name	Starch	
OEL TWA	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust	
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)	
Regulatory reference Chemical Agents Code of Practice 2024		
United Kingdom - Occupational Exposure Limits		
Local name	Starch	
WEL TWA (OEL TWA)	4 mg/m³ respirable 10 mg/m³ total inhalable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. 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. Orange.

Physical state/form : Liquid.

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

: Miscible with water.

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 : 5.5 – 6.5 Viscosity, kinematic : Not available

Viscosity, dynamic : 10000 – 55000 cP at 20 °C

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 : 1.025 g/cm³
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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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

1,2-benzisothiazol-3(2H)-one (BIT) (2634-33-5)	
LD50 oral	1020 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight
LD50 dermal	4115 mg/kg bodyweight

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)		
LD50 oral rat	64 mg/kg	
LD50 dermal rat	87.12 mg/kg	
LD50 dermal rabbit	78 mg/kg	
LC50 Inhalation - Rat	0.33 mg/l/4h	
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l/4h	

Skin corrosion/irritation : Not classified

pH: 5.5 - 6.5

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

Serious eye damage/irritation : Not classified

pH: 5.5 – 6.5

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

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

Reproductive toxicity : Not classified

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

STOT-single exposure : Not classified

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

STOT-repeated exposure : Not classified

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

Aspiration hazard : Not classified

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

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11.2.2. 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)

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

: Not classified

: Not classified

1,2-benzisothiazol-3(2H)-one (BIT) (2634-33-5)		
LC50 - Fish [1]	1.3 mg/l	
EC50 - Crustacea [1]	2.94 mg/l	
ErC50 algae	0.084 mg/l	
NOEC chronic fish	0.74 mg/l	
NOEC chronic crustacea	0.7 mg/l	
NOEC chronic algae	0.043 mg/l	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)		
LC50 - Fish [1]	0.22 mg/l (Onchorhyncus mykiss) (OECD 203)	
EC50 - Crustacea [1]	0.16 mg/l	
EC50 - Other aquatic organisms [1]	0.126 mg/l waterflea	
EC50 - Other aquatic organisms [2]	0.052 mg/l (Skeletonema costatum) (DIN EN ISO 10253)	
EC50 72h - Algae [1]	0.027 mg/l	
ErC50 algae	0.003 mg/l Skeletonema costatum	
ErC50 other aquatic plants	0.018 mg/l selenastrum capricornutum	
NOEC chronic fish	0.05 mg/l	
NOEC chronic crustacea	0.1 mg/l	
NOEC chronic algae	0.0012 mg/l (Pseudokirchneriella subcapitata) (OECD 201)	

12.2. Persistence and degradability

PURITI STARCH SOLUTION		
Persistence and degradability Biodegradable.		
Starch (9005-25-8)		
Persistence and degradability Rapidly degradable		
1,2-benzisothiazol-3(2H)-one (BIT) (2634-33-5)		

Rapidly degradable reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

Persistence and degradability	t1/2 anaerobic = 0.2d. t 1/2 aerobic = 0.38 - 1.3d. 2-methyl-2H-isothiazole-3-one: t1/2
	aerobic = 0.38 - 1.4d.

12.3. Bioaccumulative potential

Persistence and degradability

12.3. Bioaccumulative potential		
PURITI STARCH SOLUTION		
Bioaccumulative potential No bioaccumulation.		
1,2-benzisothiazol-3(2H)-one (BIT) (2634-33-5)		
Log Pow 0.7		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)		
Log Pow 0.4		

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

PURITI STARCH SOLUTION

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

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

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number	<u> </u>	
Not regulated for transport		
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated

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

15.1.1. 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)

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POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (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.

Detergent Regulation (648/2004)

Labelling of contents		
Component	%	
BENZISOTHIAZOLINONE		
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE		

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)

15.1.2. National regulations

No additional information available

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	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
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	
EUH071	Corrosive to the respiratory tract.	
EUH208	Contains BENZISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal 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.	

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Full text of H- and EUH-statements:		
H330	Fatal if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	

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.