



CHRISTEYNS

SAFETY DATA SHEET

Natural Liquid Starch

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name	Natural Liquid Starch
Product number	7083/11793
UFI	UFI: A3MM-U0J6-200N-QNJM

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

Identified uses	Aqueous suspension of maize starches, additives and preservatives. Professional use only.
Uses advised against	No uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier	Christeyns UK Ltd Rutland Street, Bradford, West Yorkshire. BD4 7EA Tel: 01274 393286 Fax: 01274 309143 info@christeyns.co.uk
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1.4. Emergency telephone number

Emergency telephone	Tel: 01274 393286, Fax: 01274 309143 (8.30am-5pm Monday to Friday)
National emergency telephone number	NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard statements	EUH208 Contains 2-OCTYL-2H-ISOTHIAZOL-3-ONE. May produce an allergic reaction.
Precautionary statements	P262 Do not get in eyes, on skin, or on clothing.
Detergent labelling	Contains 2-OCTYL-2H-ISOTHIAZOL-3-ONE, 1,2-BENZOISOTHIAZOL-3(2H)-ONE, 2-METHYL-2H-ISOTHIAZOL-3-ONE

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Natural Liquid Starch

2,2' OXYDIETHANOL			3-5%
CAS number: 111-46-6	EC number: 203-872-2	REACH registration number: 01-2119457857-21-XXXX	
Classification			
Acute Tox. 4 - H302			
STOT RE 2 - H373			

The full text for all hazard statements is displayed in Section 16.

Ingredient notes

Full text of R-, H- and EUH- phrases; see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Not relevant.
Ingestion	Get medical attention if a large quantity has been ingested.
Skin contact	Rinse immediately with plenty of water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor	No information available.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment. Use appropriate containment to avoid environmental contamination.
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6.3. Methods and material for containment and cleaning up

Natural Liquid Starch

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Inform authorities if large amounts are involved.

6.4. Reference to other sections

Reference to other sections No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Avoid freezing. Store at temperatures above 5°C. Store in tightly-closed, original container.

Storage class Non-combustible liquids

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

2,2' OXYDIETHANOL

Long-term exposure limit (8-hour TWA): WEL 23 ppm 101 mg/m³

WEL = Workplace Exposure Limit.

Ingredient comments No additional information available

Sorbitol (CAS: 68425-17-2)

DNEL Workers - Dermal; Long term systemic effects: 2000 mg/kg
Workers - Inhalation; Long term systemic effects: 5 mg/m³
General population - Dermal; Long term systemic effects: 2000 mg/kg
General population - Inhalation; Long term systemic effects: 0.89 mg/m³
General population - Oral; systemic effects: 200 mg/kg

PNEC - Fresh water; 0.973 mg/l
- marine water; 0.0973 mg/l
- Intermittent release; 9.73 mg/l
- STP; 66.7 mg/l
- Sediment (Freshwater); 3.63 mg/kg
- Sediment (Marinewater); 0.363 mg/kg
- Soil; 0.15 mg/kg

2,2' OXYDIETHANOL (CAS: 111-46-6)

DNEL Workers - Dermal; Long term systemic effects: 106 mg/kg
Workers - Inhalation; Long term local effects: 60 mg/m³
Consumer - Dermal; Long term systemic effects: 53 mg/kg
Consumer - Inhalation; Long term local effects: 12 mg/m³

PNEC - Fresh water; 10 mg/l
- marine water; 1 mg/l
- Intermittent release; 10 mg/l
- Sediment (Freshwater); 20.9 mg/kg
- STP; 199.5 mg/l
- Soil; 1.53 mg/kg

8.2. Exposure controls

Natural Liquid Starch

Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN 14605). Long sleeved protective clothing
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid.
Colour	White.
Odour	Slight.
Odour threshold	No information available.
pH	pH (concentrated solution): 3.5-5 (10% solution) pH (diluted solution): 6 1%
Melting point	Not applicable.
Initial boiling point and range	No information available.
Flash point	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.15 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Miscible with water.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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Natural Liquid Starch

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid freezing. There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Do not mix with other household chemical products.

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 35,840.0

General information This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

Acute and chronic health hazards Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

Toxicological information on ingredients.

2,2' OXYDIETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,120.0

Species Human

ATE oral (mg/kg) 1,120.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 13,300.0

Species Rabbit

ATE dermal (mg/kg) 13,300.0

Acute toxicity - inhalation

Species Rat

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Natural Liquid Starch

Ecological information on ingredients.

2,2' OXYDIETHANOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 75200 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >10000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 8 days: 2700 mg/l, Algae
Acute toxicity - microorganisms	EC ₂₀ , 0.5 hours: >1.995 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is non-volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

EURAL Code

SECTION 14: Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Transport labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Natural Liquid Starch

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU legislation

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 (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Revision is due to a preservative change
Revision date	02/09/2019
Revision	9
Supersedes date	29/05/2019
SDS number	7083/11793
Hazard statements in full	H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. EUH208 Contains 2-OCTYL-2H-ISOTHIAZOL-3-ONE. May produce an allergic reaction.