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A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # BTNM-0071

## Starch, Soluble, Reagent Grade, 500 g

Size: 500g





Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the sub	ostance/mixture and of the con	npanv/undertal	king
1.1. Product identifier			
Product form	: Substance		
Substance name	: Starch		
EC-No.	: 232-686-4		
CAS-No.	: 9005-84-9		
Product code	: S088_S089		
Type of product	: Pure substance		
Formula	: (C6H10O5)n		
Synonyms	: alpha-amylodextrin / amylodextr soluble starch / stabilose AO / st zulkovsky starch		rin,amylo / kordek / potato starch / om potatoes / starch soluble /
Product group	: Raw material		
BIG No	: 30550		
1.2. Relevant identified uses of the subs	stance or mixture and uses advise	ed against	
1.2.1. Relevant identified uses			
Use of the substance/mixture	: Paper production: thickener		
<b>1.2.2. Uses advised against</b> No additional information available			
<b>1.3. Details of the supplier of the safety</b>	data sheet		
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504			
technical@GBiosciences.com - www.GBioscien	<u>ces.com</u>		
1.4. Emergency telephone number Emergency number	: Chemtrec <b>1-800-424-9300</b> (USA/Ca	anada), <b>+1-703-527-</b>	3887 (Intl)
SECTION 2: Hazards identification 2.1. Classification of the substance or n	nixture		
Classification according to Regulation (EC) I	No. 1272/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and To our knowledge, this product does not presen practice.		ed in accordance wit	h good occupational hygiene and safety
2.2. Label elements			
Labelling according to Regulation (EC) No. 1 No labelling applicable	272/2008 [CLP]		
2.3. Other hazards			
No additional information available			
SECTION 3: Composition/informatio	on on ingredients		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Starch	(CAS-No.) 9005-84-9 (EC-No.) 232-686-4	100	Not classified
		100	Not classified
3.2. Mixtures		100	Not classified
		100	Not classified
3.2. Mixtures		100	Not classified

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First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.

## **4.2. Most important symptoms and effects, both acute and delayed** Symptoms/effects after inhalation : AFTER INHALATION OF

: AFTER INHALATION OF DUST/MIST: Coughing.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.
5.2. Special hazards arising from the substa	nce or mixture
Fire hazard	: DIRECT FIRE HAZARD: Non-flammable. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: No specific fire-fighting instructions required.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	quipment and emergency procedures	
6.1.1. For non-emergency personnel		
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.	
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.	
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. In case of dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containm	ent and cleaning up	
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Powdered form: no compressed air for pumping over spills.	
Methods for cleaning up	: Prevent dust cloud formation. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid raising dust. Keep away from naked flames/heat. Take precautions against electrostatic charges. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Keep container tightly closed.

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Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, include	ing any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
7.3 Specific and use(s)	

**7.3. Specific end use(s)** No additional information available

SECTION 8: Exposure controls/personal p	protection	
8.1. Control parameters		
Starch (9005-84-9)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (mg/m³)	10 mg/m³ 4 mg/m³	
8.2. Exposure controls		
Appropriate engineering controls:		
Ensure good ventilation of the work station.		
Hand protection:		
Gloves		
Eye protection:		
Safety glasses. In case of dust production: protective goggles		
Skin and body protection:		
Protective clothing		
Respiratory protection:		
Dust production: dust mask with filter type P1		
Environmental exposure controls:		

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and che			
Physical state	: Solid		
Appearance	: Solid. Amorphous powder.		
Molecular mass	: 162.14 g/mol		
Colour	: White.		
Odour	: Odourless.		
Odour threshold	: No data available		
рН	: 4 - 7.5 (2 %)		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: Not applicable		
Boiling point	: No data available		
Flash point	: Not applicable		
Auto-ignition temperature	: > 380 °C		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: Not applicable		
Relative density	: 1.5		
Density	: 1500 kg/m³		

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Solubility	: Moderately soluble in water. Substance sinks in water.
	Water: 5 g/100ml (90 °C)
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	
VOC content	: 0 %

SECTION 10: Stability and reactivity
10.1. Reactivity
Reacts with (strong) oxidizers: (increased) risk of fire.
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
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological inform	
11.1. Information on toxicological eff	ects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 4 - 7.5 (2 %)
Serious eye damage/irritation	: Not classified
	pH: 4 - 7.5 (2 %)
Respiratory or skin sensitisation	: Not classified

Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Mild water pollutant (surface water).
Acute aquatic toxicity :	Not classified
Chronic aquatic toxicity	Not classified
12.2. Persistence and degradability	
Starch (9005-84-9)	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.18 g O <sub>2</sub> /g substance
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	

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12.5. Results of PBT and vPvB assessm	ent
No additional information available	

## **12.6. Other adverse effects** No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. May be discharged to wastewater treatment installation.
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
European List of Waste (LoW) code	: 02 03 99 - wastes not otherwise specified

SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	. Net se sudate d
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
<b>14.2. UN proper shipping name</b> Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	······································
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	-
Transport hazard class(es) (IMDG)	: Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	: No
Dangerous for the environment	
Marine pollutant Other information	: No : No supplementary information available
14.6. Special precautions for user	
Overland transport	
Not regulated	
Transport by sea	
Not regulated	
Air transport	
Not regulated	

### Inland waterway transport Not regulated

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#### Rail transport

#### Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

#### **SECTION 15: Regulatory information**

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

:0%

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Starch is not on the REACH Candidate List

Starch is not on the REACH Annex XIV List

Starch is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Starch is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. Chemical safety assessment No chemical safety assessment has been carried out

#### SECTION 16: Other information

#### Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the sub	ostance/mixture and of the con	npanv/undertal	king
1.1. Product identifier			
Product form	: Substance		
Substance name	: Starch		
EC-No.	: 232-686-4		
CAS-No.	: 9005-84-9		
Product code	: S088_S089		
Type of product	: Pure substance		
Formula	: (C6H10O5)n		
Synonyms	: alpha-amylodextrin / amylodextr soluble starch / stabilose AO / st zulkovsky starch		rin,amylo / kordek / potato starch / om potatoes / starch soluble /
Product group	: Raw material		
BIG No	: 30550		
1.2. Relevant identified uses of the subs	stance or mixture and uses advise	ed against	
1.2.1. Relevant identified uses			
Use of the substance/mixture	: Paper production: thickener		
<b>1.2.2. Uses advised against</b> No additional information available			
<b>1.3. Details of the supplier of the safety</b>	data sheet		
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504			
technical@GBiosciences.com - www.GBioscien	<u>ces.com</u>		
1.4. Emergency telephone number Emergency number	: Chemtrec <b>1-800-424-9300</b> (USA/Ca	anada), <b>+1-703-527-</b>	3887 (Intl)
SECTION 2: Hazards identification 2.1. Classification of the substance or n	nixture		
Classification according to Regulation (EC) I	No. 1272/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and To our knowledge, this product does not presen practice.		ed in accordance wit	h good occupational hygiene and safety
2.2. Label elements			
Labelling according to Regulation (EC) No. 1 No labelling applicable	272/2008 [CLP]		
2.3. Other hazards			
No additional information available			
SECTION 3: Composition/informatio	on on ingredients		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Starch	(CAS-No.) 9005-84-9 (EC-No.) 232-686-4	100	Not classified
		100	Not classified
3.2. Mixtures		100	Not classified
		100	Not classified
3.2. Mixtures		100	Not classified

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First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.

## **4.2. Most important symptoms and effects, both acute and delayed** Symptoms/effects after inhalation : AFTER INHALATION OF

: AFTER INHALATION OF DUST/MIST: Coughing.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.
Unsuitable extinguishing media	: Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.
5.2. Special hazards arising from the substa	nce or mixture
Fire hazard	: DIRECT FIRE HAZARD: Non-flammable. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: No specific fire-fighting instructions required.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

<b>SECTION 6: Accidental release mea</b>	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. In case of dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containm	ent and cleaning up
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Provide equipment/receptacles with earthing. Powdered form: no compressed air for pumping over spills.
Methods for cleaning up	: Prevent dust cloud formation. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid raising dust. Keep away from naked flames/heat. Take precautions against electrostatic charges. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Keep container tightly closed.

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Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, include	ing any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. Provide the tank with earthing. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
7.3 Specific and use(s)	

**7.3. Specific end use(s)** No additional information available

SECTION 8: Exposure controls/personal p	protection	
8.1. Control parameters		
Starch (9005-84-9)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (mg/m³)	10 mg/m³ 4 mg/m³	
8.2. Exposure controls		
Appropriate engineering controls:		
Ensure good ventilation of the work station.		
Hand protection:		
Gloves		
Eye protection:		
Safety glasses. In case of dust production: protective goggles		
Skin and body protection:		
Protective clothing		
Respiratory protection:		
Dust production: dust mask with filter type P1		
Environmental exposure controls:		

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Solid. Amorphous powder.	
Molecular mass	: 162.14 g/mol	
Colour	: White.	
Odour	: Odourless.	
Odour threshold	: No data available	
рН	: 4 - 7.5 (2 %)	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: > 380 °C	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: Not applicable	
Relative density	: 1.5	
Density	: 1500 kg/m³	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Solubility	: Moderately soluble in water. Substance sinks in water.
	Water: 5 g/100ml (90 °C)
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	
VOC content	: 0 %

SECTION 10: Stability and reactivity
10.1. Reactivity
Reacts with (strong) oxidizers: (increased) risk of fire.
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
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological inform	
11.1. Information on toxicological eff	ects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 4 - 7.5 (2 %)
Serious eye damage/irritation	: Not classified
	pH: 4 - 7.5 (2 %)
Respiratory or skin sensitisation	: Not classified

Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Mild water pollutant (surface water).
Acute aquatic toxicity	Not classified
Chronic aquatic toxicity	Not classified
12.2. Persistence and degradability	
Starch (9005-84-9)	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.18 g O <sub>2</sub> /g substance
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.5. Results of PBT and vPvB assessm	ent
No additional information available	

## **12.6. Other adverse effects** No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Waste treatment methods.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. May be discharged to wastewater treatment installation.
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
European List of Waste (LoW) code	: 02 03 99 - wastes not otherwise specified

SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	. Net required
UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
<b>14.2. UN proper shipping name</b> Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	-
Transport hazard class(es) (IMDG)	: Not regulated
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not regulated
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	: No
Dangerous for the environment Marine pollutant	
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Not regulated	
Transport by sea	
Not regulated	
Air transport	
Not regulated	
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### Inland waterway transport Not regulated

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Rail transport

#### Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

### SECTION 15: Regulatory information

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

:0%

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Starch is not on the REACH Candidate List

Starch is not on the REACH Annex XIV List

Starch is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Starch is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. Chemical safety assessment No chemical safety assessment has been carried out

#### SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

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.