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

: Substance : Starch

1.1.	Product identifier
Produc	t form
Substa	nce name
EC-No.	
CAS-N	0.
Type of	fproduct
Formul	a
Chemic	cal structure

: 232-686-4 : 9005-84-9 : Pure substance

: (C₆H₁₀O₅)n



Synonyms

: Amylodextrin / alpha-amylodextrin / amylogen / dextrin,amylo / kordek / potato starch / soluble starch / stabilose AO / stabilose K / starch from potatoes / starch soluble / zulkovsky starch

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Paper production: thickener Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

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] No labelling applicable

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Starch	(CAS-No.) 9005-84-9 (EC-No.) 232-686-4	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

norup	pilouble	
SECT	FION 4: First aid measures	
4.1.	Description of first aid measures	
First-a	id measures general	: If you feel unwell, seek medical advice.
First-a	id measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-a	id measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-a	id measures after eye contact	 Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-a	id 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 e	ffects, both acute and delayed
Sympt	oms/effects after inhalation	: AFTER INHALATION OF DUST: Coughing.
4.3.	Indication of any immediate med	ical attention and special treatment needed
No add	ditional information available	
SECT	FION 5: Fire-fighting measure	20
5.1.	Extinguishing media	
	le extinguishing media	: Water spray.
	able extinguishing media	: No unsuitable extinguishing media known.
5.2.	Special hazards arising from the	
Fire ha	izard	 DIRECT FIRE HAZARD. Non-flammable. INDIRECT FIRE HAZARD. Reactions involving a fire hazard: see "Reactivity Hazard".
Explos	ion hazard	 DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark.
5.3.	Advice for firefighters	
Precau	utionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefigl	nting instructions	: No specific fire-fighting instructions required.
Protec	tion during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECT	FION 6: Accidental release m	easures
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
Protec	tive equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
Emerg	ency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measu	res in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. 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	
No add	ditional information available	
6.2.	Environmental precautions	
	ditional information available	
6.3.	Methods and material for contain	ment and cleaning up
	ntainment	 Contain released substance, 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.
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Methods for cleaning up

OFOTION 7 11

: 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.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Take precautions against electrostatic charges. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2. Conditions for safe storage, incl	uding any incompatibilities
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.
Packaging materials	: SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control paramete	rs	
Starch (9005-84-9)		
Belgium	Limit value (mg/m³)	3 mg/m ³ (Particules non classifiées autrement (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h; Particules non classifiées autrement (fraction inhalable); 10 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m³)	10 mg/m ³ (Poussières réputées sans effet spécifique; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante; Poussières réputées sans effet spécifique, fraction; 5 mg/m ³ ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
United Kingdom	WEL TWA (mg/m³)	4 mg/m ³ Inhalable dust; United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Respirable dust; 10 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

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Dust production: dust mask with filter type P1

Bust production. dust mask with filter type P f	
SECTION 9: Physical and chemical p	
9.1. Information on basic physical and c	
Physical state	: Solid
Appearance	: Solid. Amorphous powder.
Molecular mass	: No data available
Colour	: White.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 5.0 - 7.0 (%2)
pH solution	: 2%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: > 380 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.5
Density	: 1500 kg/m³
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	: No data available
9.2. Other information	
VOC content	: 0%
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Upon combustion: CO and CO2 are formed. Rea	cts with (strong) oxidizers: (increased) risk of fire.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified

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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	: No environmental hazard.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.
Ecology - water	: Mild water pollutant (surface water).

12.2. Persistence and degradability

Starch (9005-84-9)	
Persistence and degradability	Readily biodegradable in water.
ThOD	1.18 g O₂/g substance

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns
13.1. 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	: LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC.
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

ADR	IMDG	IATA	ADN	RID
4.1. UN numbe	er			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name		•	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport	hazard class(es)	1	•	1
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing g	roup		•	1
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	ΙΑΤΑ	ADN	RID		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available						

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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							
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							
VOC content	: 0%						
15.1.2. National regulations							
Germany							
VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters						
WGK remark	: Internal classification water polluting based on the R-phrases according to method VwVwS (Anhang 3)						
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)						
Netherlands							
SZW-lijst van kankerverwekkende stoffen	: Starch is listed						
SZW-lijst van mutagene stoffen	: Starch is listed						
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed						
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed						
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed						

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

giftige stoffen - Ontwikkeling

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
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BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

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.

SDS ISOLAB

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