

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### potato starch USA-FOOD

Print date : 09.09.2008

Product code : 01056

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#### 1. Identification of the substance/preparation and of the company/undertaking

##### Identification of the substance or preparation

potato starch USA-FOOD

##### Use of the substance/preparation

Binding agent.  
Substance for thickening.

##### Company/undertaking identification

Company name :	Emsland-Stärke GmbH Werk Emlichheim	
Street :	Emslandstrasse 58	
Place :	D-49824 Emlichheim	
Post-office box :	1140 D-49820 Emlichheim	
Telephone :	05943/81-0	Telefax : 05943/81-145
Contact person :	Jan-Heinz Borgman	Telephone : 05943/81-288
e-mail :	info@emsland-group.de	
Internet :	www.emsland-group.de	
Inquiry office :	Forschungslabor/Anwendungstechnik	
Emergency telephone :	05943/81-0	

#### 2. Hazards identification

##### **Classification**

This substance is not classified as dangerous according to Directive 67/548/EEC.

#### 3. Composition/information on ingredients

Chemical characterization ( substance )  
starch, nativ

CAS-No.: 9005-25-8  
EC-no. (EINECS/ELINCS): 232-679-6

#### 4. First aid measures

##### **General information**

in case of skin contact defatty behaviour.

##### **After inhalation**

Provide fresh air.

##### **After contact with skin**

Rinse with water.

##### **After contact with eyes**

Rinse with water.

##### **After ingestion**

Rinse mouth thoroughly with water.

##### **Advice to doctor**

consumption of native starch has no noxious effects. Starch is food.

#### 5. Fire-fighting measures

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#### Suitable extinguishing media

All about, water gives slippery floors.

#### Extinguishing media which must not be used for safety reasons

all extinguishing agents capable

#### Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

#### Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

### 6. Accidental release measures

#### Personal precautions

Avoid skin and eye contact

#### Environmental precautions

Do not empty into drains or the aquatic environment.

#### Methods for cleaning up/taking up

Take up dust free, small rests rinse with water.

### 7. Handling and storage

#### Handling

##### Advice on safe handling

Avoid generation of dust.

##### Advice on protection against fire and explosion

explosive dust-air mixtures may form.

Dust explosive, Dust explosion category: ST 1

Avoid dust deposits.

##### Further information on handling

Use explosion-protected machinery, apparatus, suction equipment, appliances etc.

#### Storage

##### Requirements for storage rooms and vessels

Keep cool and dry in closed bags.

##### Further information on storage conditions

storage temperature:

of °C: 15 up to °C: 25

Relative room humidity (%):

up to (%): 65

### 8. Exposure controls/personal protection

#### Exposure limit values

##### Exposure limits (EH40)

CAS-No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
9005-25-8	Starch, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
9005-25-8	Starch, total inhalable	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### Exposure controls

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#### Occupational exposure controls

Care for good ventilation/absorbtion at work.

#### Protective and hyglene measures

No dangerous substance, however pay attention for universall precaution in handling with chemicals.

#### Respiratory protection

Under dusting conditions:  
breathing mask filter P1

#### Hand protection

Wear protective gloves

#### Eye protection

Under dusting conditions:  
eye protection

### 9. Physical and chemical properties

#### General information

Physical state : Powder  
Colour : white  
Odour : neutral

#### Important health, safety and environmental information

	Test method
Changes in the physical state	
glowing temperature :	530 °C
Explosive properties	
dust explosive, Dust explosion category: ST 1	
minimum ignition temperature: 10 - 50 mJ	
Lower explosion limits :	60 g/m <sup>3</sup> VDI 2263
Upper explosion limits :	VDI 2263
Water solubility :	< 3 g/L
(at 20 °C)	

#### Other information

Ignition temperature : 420 °C

### 10. Stability and reactivity

#### Conditions to avoid

humidity  
heat

#### Materials to avoid

Alkalis (alkalis).

#### Hazardous decomposition products

Does not decompose by proper application.

### 11. Toxicological information

#### Acute toxiclty

LD50, oral: > 2000 mg/kg  
LD50, dermal: > 2000 mg/kg  
LC50, inhalativ, dust: > 5mg/l/4 h

#### Specific effects in experiment on an animal

Toxicological data are not available.

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#### Corrosive and irritant effects

No irritant effect

#### Sensitising effects

No sensitization effect

#### Carcinogenic/mutagenic/toxic effects for reproduction

No Carcinogenic, germ cell mutagen and reproduction effects.

#### Empirical data on effects on humans

Has de-greasing effect on the skin.

### 12. Ecological information

#### Ecotoxicity

LC50 (fish, 96 h): > 100mg/l

EC50 (daphnia, 48 h): > 100mg/l

IC50 (algae, 72 h): > 100 mg/l

#### Persistence and degradability

Easily biodegradable..

Chemical Oxygen Demand (COD) ca. 1200 mg O<sub>2</sub>/g

Biochemical oxygen demand (BOD) ca. 600 mg O<sub>2</sub>/g

#### Bioaccumulative potential

No indication of bio-accumulation potential.

### 13. Disposal considerations

#### Waste disposal number of waste from residues/unused products

020399 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING; wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation; wastes not otherwise specified

#### Waste disposal number of used product

020399 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING; wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation; wastes not otherwise specified

#### Contaminated packaging

Waste disposal according to official state regulations.

### 14. Transport information

#### Land transport (ADR/RID)

##### Description of the goods

Not a hazardous material with respect to transportation regulations.

#### Inland waterways transport

##### Description of the goods

Not a hazardous material with respect to these transportation regulations.

#### Marine transport

##### Description of the goods

Not a hazardous material with respect to these transportation regulations.

#### Air transport

##### Description of the goods

Not a hazardous material with respect to these transportation regulations.

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### 15. Regulatory information

#### Labelling

#### National regulatory information

Water contaminating class : 1 - slightly water contaminating

#### Additional information

A classification is not necessary at application according to LFGB.

### 16. Other information