

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

pea starch

Print date : 30.10.2008

Product code : 05400

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

Identification of the substance or preparation

pea starch

Use of the substance/preparation

food industry
paper industry: surface treatment

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 (CO₂). 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 ³	mg/m ³	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 hygiene measures

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

Respiratory protectionUnder dusting conditions:
breathing mask filter P1**Hand protection**

Wear protective gloves

Eye protectionUnder dusting conditions:
eye protection**9. Physical and chemical properties****General information**Physical state : Powder
Colour : white
Odour : neutral**Important health, safety and environmental information****Changes in the physical state**

glowing temperature : 530 °C

Test method

Explosive propertiesdust explosive, Dust explosion category: ST 1
minimum ignition temperature: 10 - 50 mJLower explosion limits : 60 g/m³ 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 toxicity**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 O₂/g

Biochemical oxygen demand (BOD) ca. 600 mg O₂/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

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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 at VwVwS is not necessary at application according to LFGB.

16. Other information