



# GUSTAV PARMENTIER GmbH

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## Material Safety Data Sheet acc. REACH

conform to Annex II (Requirements for the compilation of safety data sheets), Directive EU 453/2010 (20.05.2010)

Modified: 27.11.15

Printed: 27.11.15

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### 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Pullulan Capsules

Trade name:	<b>Pullulan Capsules</b>
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1.2 Relevant identified uses of the substance or mixture and uses advised against As vehicle for drug substances and nutritional supplements

1.3 Details of the supplier of the safety data sheet  
GUSTAV PARMENTIER GmbH  
Eichendorffstrasse 37  
D-60320 Frankfurt am Main  
Tel.: 069 / 56 10 34  
Fax: 069 / 56 85 18  
e-Mail: [info@parmentier.de](mailto:info@parmentier.de)

1.4 Emergency telephone number  
Giftinformationszentrum Mainz  
Langenbeckstrasse 1  
D-55131 Mainz  
Tel.: 06131 / 19240

### 2 Hazards identification

2.1 Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements None

2.3 Other hazards No hazardous effects on health and environment known.

### 3 Composition/information on ingredients

3.2 Mixtures  
Pullulan and Water  
CAS No: 9057-02-7 and 7732-18-5  
EC No: 232-945-1 and 231-791-2

3.2.1 Description  
Hard Capsules composed of Pullulan and water.  
Does not contain any hazardous substances.



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### 4 First aid measures

- |     |   |   |
|-----|---|---|
| 4.1 | <b>Description of first aid measures</b>  | After <b>eye and skin contact</b> flush off with water.<br><br>After <b>ingestion</b> , no special measures. If larger quantities were swallowed, drink sufficient water. |
| 4.2 | <b>Most important symptoms and effects, both acute and delayed</b>                | Gastrointestinal disorder   |
| 4.3 | <b>Indication of any immediate medical attention and special treatment needed</b> | If problems resist, consult a physician.  |

### 5 Firefighting measures

- |     |  |   |
|-----|--|---|
| 5.1 | <b>Extinguishing media</b>                                   | All known extinguishing agents                          |
| 5.2 | <b>Special hazards arising from the substance or mixture</b> | No data available                                       |
| 5.3 | <b>Advice for firefighters</b>                               | Use air supplied equipment for fighting interior fires. |

### 6 Accidental Release Measures

- |     |  |  |
|-----|--|--|
| 6.1 | <b>Personal precautions, protective equipment and emergency procedures</b> | None   |
| 6.2 | <b>Environmental precautions</b>   | Keep away in larger quantities from bodies of water or sewage systems.                               |
| 6.3 | <b>Methods and material for containment and cleaning up</b>                | Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal. |
| 6.4 | <b>Reference to other sections</b>   | For disposal see section 13.   |

### 7 Handling and storage

- |     |   |  |
|-----|---|--|
| 7.1 | <b>Precautions for safe handling</b>                                | No special requirements.   |
| 7.2 | <b>Conditions for safe storage, including any incompatibilities</b> | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. |
| 7.3 | <b>Specific end use(s)</b>  | No data available  |

### 8 Exposure controls/personal protection

- |     |                           |  |
|-----|---------------------------|--|
| 8.1 | <b>Control parameters</b> | Does not contain substances with maximum allowable concentrations. |
| 8.2 | <b>Exposure controls</b>  | General industrial hygiene practice.                               |



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### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

a) Appearance:	Hard Capsules
b) Odour:	Weak
c) Odour Threshold:	No data available
d) pH (10% aq. sol.):	5.0 - 7.0
e) Melting point/freezing point:	Decomposition before melting
f) Initial boiling point and boiling range:	Decomposition before ebullition
g) Flash point:	Not applicable
h) Evaporation rate:	No data available
i) Flammability (solid):	360 °C
j) Upper/lower flammability or explosive limits:	No data available
k) Vapour pressure:	No data available
l) Vapour density:	No data available
m) Relative density:	60 - 75 g/l depending on size
n) Water solubility:	Very good soluble in water
o) Partition coefficient: n- octanol/water:	No data available
p) Autoignition temperature:	No data available
q) Decomposition temperature:	Above 250 °C
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

**9.2 Other information** None



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### 10 Stability and reactivity

10.1	Reactivity	No data available
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	No dangerous reactions known.
10.4	Conditions to avoid	Exposure to moisture may affect product quality.
10.5	Incompatible materials	No data available
10.6	Hazardous decomposition products	No hazardous decomposition products known.

### 11 Toxicological Information

#### 11.1 Information on toxicological effects

a) Acute toxicity:	LD <sub>50</sub> (rat, oral) > 24 g/kg
b) Skin corrosion/irritation:	No data available
c) Serious eye damage/eye irritation:	No data available
d) Respiratory or skin sensitization:	Pullulan is unlikely to cause allergic reaction after aspiration.
e) Germ cell mutagenicity:	No indication of mutagenicity.
f) Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
g) Reproductive toxicity:	No data available
h) Specific target organ toxicity - single exposure:	No data available
i) Specific target organ toxicity - repeated exposure:	No data available
j) Aspiration hazard:	No data available



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### 12 Ecological information

12.1	Toxicity	Water hazard class: I (self assessed)
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	No data available
12.6	Other adverse effects	No data available

### 13 Disposal considerations

13.1	Waste treatment methods	Dispose of according to local, state and federal regulations. Burning or deposition.
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### 14 Transport information

14.1	UN number	None
14.2	UN proper shipping name	None
14.3	Transport hazard class(es)	The product is not classified in ADR/IATA/IMGD/RID - guidelines
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None

### 15 Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	None
15.2	Chemical safety assessment	None

### 16 Other information

No special training is required or any restriction does apply for use.

No restriction on uses.

For further product information please see: [www.parmentier.de](http://www.parmentier.de)