

# Material Safety Data Sheet

According to EG 1907/2006



Date Updated: 09/01/2007

Version: 1.0

Page 1 of 3

<b>1. Identification of the substance and of the company</b>	
Product name	Pullulan
<b>Manufacturer / supplier identification</b>	
Company	PSS Polymer Standards Service GmbH In der Dalheimer Wiese 5 D - 55023 Mainz
Technical Phone	+49 6131 - 96239 - 0
Fax	+49 6131 - 96239 -11
Email	Info@polymer.de
Emergency Phone	+49 6131 - 1924 - 0
<b>2. Composition / information on ingredients</b>	
CAS-No.:	9057-02-7
EC No.:	232-945-1
Molecular formula:	
<b>3. Hazards identification</b>	
SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Not hazardous according to Directive 67/548/EEC.	
<b>4. First aid measures</b>	
AFTER INHALATION If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.	
AFTER SKIN CONTACT In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.	
AFTER EYE CONTACT In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.	
AFTER INGESTION If swallowed, wash out mouth with water provided person is conscious. Call a physician.	
<b>5. Fire fighting measures</b>	
EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.	
SPECIAL RISKS Specific Hazard(s): Emits toxic fumes under fire conditions.	
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	
<b>6. Accidental release measures</b>	
PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear protective equipment.	
METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.	

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Page 2 of 3

## 7. Handling and storage

### HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of storage: Keep tightly closed. Store at 2-8°C

## 8. Exposure controls / personal protection

### ENGINEERING CONTROLS

Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

### HAND PROTECTION

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### EYE PROTECTION

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## 9. Physical and chemical properties

Appearance	Physical State:	Solid
	Colour:	White
	Form:	Powder

Property	Value
pH	N/A
BP / BP Range	N/A
Mp / Mp Range	N/A
Flash Point	N/A
Flammability	N/A
Autoignition Temp.	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG / Density	N/A
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous Data	N/A

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Page 3 of 3

Solubility	N/A
<b>10. Stability and reactivity</b>	
STABILITY Stable: stable	
HAZARDOUS DECOMPOSITION PRODUCTS Nature of decomposition products not known.	
HAZARDOUS POLYMERIZATION Will not occur.	
<b>11. Toxicological information</b>	
RTECS NUMBER: UO5470000	
SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, thr chemical, physical, and toxicological properties have not been thoroughly investigated.	
ROUTE OF EXPOSURE Multiple Routes: May cause irritation. May be harmful by inhalation, ingestion, or skin absorption.	
CONDITIONS AGGRAVATED BY EXPOSURE The toxicological properties have not been thoroughly investigated.	
<b>12. Ecological information</b>	
No data available	
<b>13. Disposal considerations</b>	
SUBSTANCE DISPOSAL Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.	
<b>14. Transport information</b>	
RID/ADR Non-hazardous for road transport.	
IMDG Non-hazardous for sea transport.	
IATA Non-hazardous for air transport.	
<b>15. Regulatory information</b>	
Not hazardous according to Directive 67/548/EEC.	
COUNTRY SPECIFIC INFORMATION Germany WGK: 3 Self-Classification	
<b>16. Other information</b>	
WARRANTY The information in this document is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. PSS GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.	
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