**Product Safety Information (MSDS)**

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| Products and company information |

product name**：**Pulullan

Item No**：**P or Pulullan

Tax Credit Finance**：**Shandong kangnaxin, biological technology co., LTD

Add：No. 20 Dongzhen road，Linqu county,Weifang city, Shandong province ,China

emergency call**：0536-3713858**

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| **Product Properties** | |
| chemical property**：** | Pullulan polysaccharides by alpha - 1, 4 glycosidic bond connection of malt trisaccharide repeating units by alpha - 1, 6 glycosidic bond polymerization of straight chain polysaccharide |
| Product  feature**：** | Does not contain toxic ingredients. |
| physical property**：** | soluble in water |
| Outside view**：** | White Powder or granule |
| The molecular weight**：** | 0.2~2.0×106 |
| **p H 值：** | 6.0-7.5 |
| Water points**：** | ≤10.0% |
| solubility**：** | Completely soluble in water |
| Should be used： | Used in medicine, food, light industry, chemical industry and petroleum etc. On May 19, 2006 the ministry of health of the People's Republic of China issued announcement no. 8, pullulan polysaccharides as one of four new kinds of food additives products, can be in the candy, chocolate coating, diaphragm, compou-nd seasonings, and used as fruit and vegetable juice beverage had been prepar-ing and thickener. |

incompatible material **：**Organic solvents such as acetone, ethanol or ether

Hot combustibility**：**Correct storage conditions not spontaneous combustion

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| **Hazards Identification** |

health hazard**：**No harm to human body

environmental harm**：**No harm to the environment

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| **matters need attention** |

general rules**：**Widely used in hairdressing, health care, food and medicine.

inhalation**：**innocuity

swallow**：**innocuity

Emergency rescue equipment**：**dispense with

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| **precautionary measures** |

engineering control：No special ventilation Settings

personal care

clothes**：**No Requirement

gloves**：**No Requirement

eye**：**Use goggles or face mask, to protect her eyes

gas mask**：**does not have to

combustibility：No flammable material

environmental protection：Can be natural degradation, no special treatment.

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| **Information for safety** |

Storage and transport：Away from the strong oxidizer, avoid glare and damp environment, as a dangerous goods transport (ALR, rids, UN, IATA/ICAO).

Leakage treatment measures

a little：As soon as possible, collected and disposed of properly

in quantity：As soon as possible, collected and disposed of properly

waste treatment

Please according to the requirements of local waste disposal authority.

The combustion or explosion hazard

method of extinguishing：Power off, with dry or carbon dioxide extinguishing fire extinguishers as well

Other security measures

Security warning: do not belong to dangerous goods to avoid the skin stimulation, long-term exposure of pullulan polysaccharides staff should keep personal clean often. To avoid dust and so on phenomenon occurring in a work environment.

**Note:** this product safety specifications are suitable for shandong connor, biological technology co., LTD. Product specifications of the products. If the product is used in formula or mixed with other products, must be sure not to appear a new hazard. This manual provides the information we can grasp is formulated on the basis of the knowledge of this product, but some of the data in the further. Suggest user note: when the product is used for purposes described in this paper, besides, there are new hazards may occur. Can't believe this manual reference by laws, regulations, operating norms such as the literature not missing. Products of the receiver has the responsibility to refer to all involved in the product use, storage, and handling of official documents. Managers have a responsibility to this product will be contained in this product safety specifications involved all the information and necessary for safety, health protection and environmental protection information is passed to any possible contact, use, storage, containers, cleaning, and others