

Safety information sheet

Article 31 of "REACH" Regulation (EC) No. 1907/2006 and its amendments do not apply to this product. This document is provided for information only, it is not a Safety Data Sheet, it therefore does not need to meet the regulatory requirements of Annex II of this regulation.

PULLULAN

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CAS-No.	9057-02-7
EC-No.	232-945-1
Synonyms	E 1204; Pururan, 1,4-2,6-alpha-D-glucan; 1,6-alpha-linked maltotriose

Product code	110177528, 110173555, 110349282, 110703842
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Product	Cosmetic ingredient. Excipient
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	DKSH Great Britain Ltd 3rd Floor, News Building, 3 London Bridge Street, LONDON SE1 9SG, UNITED KINGDOM Phone +44 20 8879 5500 safety@dksh.com
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1.4. Emergency telephone number	+44(0) 1235 239670 (24/24 - 7/7)
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Revision Date	02.07.2018
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Version	FIS3 (Previous versions: FIS2(02/08/2016))
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

The substance or mixture is not classified.

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word

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Hazard Statements

None.

Precautionary statements

None.

Supplemental information

None.

Product identifier

None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical characterization

Polysaccharide

3.1. Substances

Components	%	CLP Classification	CAS	EC-No.	REACH No.
E 1204; Pururan, 1,4-2,6-alpha-D-glucan; 1,6-alpha-linked maltotriose	100%	-	9057-02-7	232-945-1	

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities

None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
Consult a physician for severe cases.

Skin contact

Wash with water and soap as a precaution.
If skin irritation persists, call a physician.

Eye contact	Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.
Ingestion	After swallowing: only when the patient is fully conscious: rinse mouth with water. Do not induce vomiting. Consult a physician if necessary.
4.2. Most important symptoms and effects, both acute and delayed	None known.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO ₂). Foam. Dry powder. Water spray.
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Extinguishing media which must not be used for safety reasons	High volume water jet.
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5.2. Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
May form explosive dust-air mixture.
In the event of fire Carbon oxides. may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Wear protective suit.
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Specific methods	Prevent fire extinguishing water from contaminating surface water or the ground water system.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

Ensure adequate ventilation.
Use personal protective equipment.
Avoid contact with skin and eyes.
Remove all sources of ignition.
Avoid dust formation.
Avoid breathing dust.

Advice for emergency responders

Ensure adequate ventilation.
Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.
Avoid contact with skin and eyes.
Avoid breathing dust.
Avoid dust formation.
Evacuate personnel to safe areas.
Remove all sources of ignition.

6.2. Environmental precautions Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure there is sufficient ventilation.
Avoid contact with skin and eyes.
Avoid dust formation.
Avoid breathing dust.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
When using, do not eat, drink or smoke.
Take measures to prevent the build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from humid air and water.
Protect from contamination.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EU None.

Exposure limit(s) None known.

8.2. Exposure controls

Occupational exposure controls Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

Eye protection Safety glasses with side-shields conforming to EN166.

Hand protection The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin and body protection Long sleeved clothing.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.
If dust occurs: dust mask with P1 particle filter.

Thermal hazards No hazards to be specially mentioned.

Environmental exposure controls Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	White.
Odour	Odourless.
Odour Threshold	No data available.
pH:	4.5-6.5 (100g/L - 20°C)
Melting point/range:	Above the decomposition temperature
Boiling point/range:	No data available.
Flash point:	280°C
Evaporation Rate:	No data available.
Flammability:	The product is not flammable.
Explosion limits:	No data available.
Vapour pressure:	No data available.
Vapor density:	No data available.
Relative density:	280 kg/m ³ (25°C)
Water solubility:	≥ 170 g/l (20±5°C)
Partition coefficient (n-octanol/water):	No data available.
Autoignition temperature:	>400°C
Decomposition temperature:	250 °C
Viscosity:	No data available.

Explosive properties: May form explosive dust-air mixture.
Oxidising properties: No data available.

9.2. Other information

General Product Characteristics Formula: (C₁₈H₃₀O₁₅)_n.

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	Stable at normal ambient temperature and pressure. Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	May form explosive dust-air mixture.
10.4. Conditions to avoid	Rise in temperature. Avoid humidity and water. Avoid creating dust. Heat, flame and sparks.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO ₂). Hydrocarbons

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	This product should NOT be considered: Harmful if swallowed. On basis of published data. Tests have been performed on mice. LD ₅₀ /oral/mouse > 14280 mg/kg. (unpublished report, 1974) (supplier's data)
Skin corrosion/irritation	This product should NOT be considered: Irritating to skin. On basis of published data. Human repeated Insult Patch Test: No skin irritation. (unpublished report, 2004) (supplier's data)
Serious eye damage/eye irritation	This product should NOT be considered: Irritating to eyes. On basis of published data. BCOP test (Bovine Corneal Opacity and Permeability test - in vitro assay): No negative effect. (unpublished report, 2004) (supplier's data)

	HET-CAM (Hen's Egg Test utilizing the Chorioallantoic Membrane - in vivo assay): No irritation potential. (unpublished report, 2003) (supplier's data)
Respiratory / Skin Sensitisation	<p>This product should NOT be considered: skin sensitiser. On basis of published data.</p> <p>Human repeated Insult Patch Test: No sensitization responses were observed. (unpublished report, 2004) (supplier's data)</p>
Germ cell mutagenicity	<p>This product should NOT be considered: Mutagen. On basis of published data.</p> <p>Mutagenicity (Reverse mutation assay on bacteria "Ames test", in vitro): negative with or without metabolic activation. (unpublished report, 1978) (supplier's data)</p> <p>Mutagenicity (Chromosomal aberration test, in vitro): negative Reference(s): Mutagenicity Test for Food Additives, [1] (1985)</p> <p>Mutagenicity (micronucleus test): negative Reference(s): Mutagenicity Test for Food Additives, [2] (1988)</p>
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	<p>In the diet for 13 week(s), no signs of toxicity were observed in rats. (OECD Guideline 407) (unpublished report, 2003) NOAEL = 7914 mg/kg/day (male) NOAEL = 9674 mg/kg/day (female) (supplier's data)</p> <p>In the diet for 62 week(s), no signs of toxicity were observed in rats. NOAEL = 4450 mg/kg/day (male) NOAEL = 5080 mg/kg/day (female) Reference(s): Food and Chemical Toxicology, 1997. (published data)</p>
Aspiration hazard	No data available.
Human experience	No information available.

SECTION 12: Ecological information

12.1. Toxicity	No data available.
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 information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled. This substance is listed in the following inventories: YSCA, AICS,
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IECSC, EINECS, KECI, NZIoC, TCSI, TECI

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Revision Note	Safety Information Sheet sections which have been updated : 1,7,15,16
Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IATA: International Air Transport Association IMO-IMDG: International Maritime Code for Dangerous Goods PBT: Persistent Bioaccumulative & Toxic Chemical RID: Regulations concerning the International carriage of Dangerous goods by rail vPvB: very Persistent, very Bioaccumulative chemical
Key literature references and sources for data	Refer to the respective sections. Supplier's data. Information taken from reference works and the literature.
Classification procedure	Classification of the substance according to the European Regulation 1272/2008/EC. On basis of published data.
Full text of phrases referred to under sections 2 and 3	None.
Further information	No information available.
Disclaimer	The information provided in this Safety Information Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This Safety Information Sheet only contains information relating to safety and does not replace any product information or product specification.

