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Safety Data Sheet

POTATO STARCH Food Grade Quality

According to Annex II of Regulation (EC) No. 1907/2006 (REACH).

SECTION 1: Identification of product and company

1.1. Product identifier

POTATO STARCH Food Grade Quality

Unique Formula Identifier (UFI): Not required, the product is not classified as hazardous.

1.2. Relevant identified uses of the substance or mixture

Food industry

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The product does not contain substances in amounts resulting in health or environmental hazard classification according to the criteria in the respective CLP Regulation.

4.1. Description of first aid measures

Instructions by relevant routes of exposure:

Inhalation: Supply fresh air. Seek medical advice in case of breathing complaints.

Eye Contact: Remove contact lenses. Rinse open eyes with plenty of water for at least 10 minutes. Seek medical advice if symptoms persist.

Skin Contact: Wash skin with plenty of water.

Ingestion: Rinse mouth and throat thoroughly with water. Drink water.

4.2. Most important symptoms and effects, both acute and delayed	Symptoms and effects, both acute and delayed, are indicated in sections 2 and 11.
4.3. Indication of any immediate medical attention and special treatment needed	If any adverse reaction or discomfort continues, seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media	Powder, foam or water fog are suitable.
5.2. Special hazards arising from the substance or mixture	In case of fire, the decomposition fume contains for the most part carbon dioxide (CO2), carbon monoxide (CO) and water (H2O).
5.3. Advice for firefighters	Wear self-contained respiratory protective device and protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	Avoid formation of dust. Minimize direct contact with skin or eyes and prevent inhalation.
6.2. Environmental precautions	Do not empty into drains, surface water or ground water.
6.3. Methods and material for containment and cleaning up	Sweep up in dry form or use explosion proof vacuum cleaning. Avoid formation of dust. Wet material can form slippery surface.
6.4. Reference to other sections	-

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid contact with skin and eyes. Provide adequate ventilation. Prevent formation of dust. Avoid dust deposits. Clean working area on regularly base. Take precautions against dust explosions by using equipment which is designed in compliance with the EU ATEX rules. All handling equipment must be properly grounded. Keep away from ignitions sources. Extreme local conditions like high temperature and/or low humidity may result in higher risk for dust explosion.
7.2. Conditions for safe storage, including any incompatibilities	Store in closed packaging at room temperature.
7.3. Specific end use(s)	None

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	Referring to Starch (9005-25-8): Respirable 4 mg/m3, total inhalable 10 mg/m3 (TWA 8 h; EH40/2005 Workplace exposure limits), OSHA PEL: TWA 15 mg/m3 (total), TWA 5 mg/m3 (resp).
8.2. Exposure controls	Eyes: Tightly sealed goggles. Skin: Wear appropriate clothing to prevent repeated or prolonged skin contact. Hand: Impermeable neoprene or nitrile gloves. Respiratory: In nuisance dusty conditions breathing protection is recommended (Filter FFP2).
Environmental exposure control:	Prevent uncontrolled release into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	White powder
Odour:	Slight specific.

pH:	~7 (~100 g/l water)
Solubility in water:	Soluble in hot water, insoluble in cold water.
9.2. Other information	**Dust Cloud Ignition Hazard:**
Minimal Ignition Energy (MIE):	>100 mJ
Minimal Ignition Temperature (MIT):	300-500 ºC
Dust Explosion Constant (Kst):	50 - 200 bar.m/s
Dust Explosion Class (ST):	1
Explosion Overpressure (Pmax):	8 - 10 bar
Lowest Explosion Limit (LEL):	30 - 60 g/m³
	Dust layer ignition hazard:
Layer Ignition Temperature (LIT):	>400 °C
Onset temperature for thermal instability:	<200 °C

SECTION 10: Stability and reactivity

10.1. Reactivity	No known hazardous reactions under normal conditions. Risk of dust explosion.
10.2. Chemical stability	The product is stable when stored and used as directed in section 7.
10.3. Possibility of hazardous reactions	No known hazardous reactions under normal conditions.
10.4. Conditions to avoid	Avoid proximity of ignition sources.
10.5. Incompatible materials	Avoid contact with strong oxidizing agents.
10.6. Hazardous decomposition products	Does not decompose when used for intended uses. In case of fire, the decomposition fume contains for the most part carbon dioxide (CO2), carbon monoxide (CO) and water (H2O).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:	LD50 oral: >2000 mg/kg (not toxic)
Corrosive and irritating effects:	No corrosive or irritating effects known.
Sensitising effects:	No sensitizing effects known.
Long term effects:	No long term effects known.
11.2. Information on other hazards	No information available.

SECTION 12: Ecological information

12.1. Toxicity	EC50 Fish: not available EC50 Daphnia: >100 mg/l EC50 Bacteria: >100 mg/l IC50 Algae: not available Water hazard class (WGK) 1: low hazard to waters (Self assessment)
12.2. Persistence and degradability	Readily (OECD 301D 28d >60%) or inherently (OECD 301D 28d >50%). Ultimately, this product decomposes completely into carbon dioxide, water and minerals.
12.3. Bioaccumulative potential	Not expected, product is hydrophilic (log Pow: <-2)
12.4. Mobility in soil	No information available.
12.5. Results of PBT and vPvB assessment	No information available.

12.6. Endocrine disrupting properties	No information available.
12.7. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	Dispose of in compliance with local or national regulations governing the disposal of waste. European Waste Catalogue (EWC): 02 03 99 Waste from agricultural food processing, not specified elsewhere.

SECTION 14: Transport information

14.1. UN number	Not classified as dangerous goods for road transport (RID/ADR), sea transport (IMDG) and air transport (IATA/ICAO).
14.2. UN proper shipping name	None assigned.
14.3. Transport hazard class(es)	None assigned.
14.4. Packing group	None assigned.
14.5. Environmental hazards	None assigned.
14.6. Special precautions for user	None
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	None assigned.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Regulation 1907/2006:	This product is exempt from registration obligations according to the provisions in REACH Article 2.7.a (Annex IV: Starch, Dextrin, Maltodextrin, Glucose, Syrups, hydrolysed starch). Any present non-exempt substance in this product has been registered.
REACH Authorisations and Restrictions:	This product is not subject to authorisation as imposed under title VII or restriction as imposed under title VIII.
International inventory status:	The component(s) in this product is (are) Australia: listed in the Australian Inventory of Chemical Substances (AICS). Canada: listed in the Domestic Substance List (DSL), not listed in the Non Domestic Substance List (NDSL). Unites States: listed in the Toxic Substance Control Act (TSCA); Commercial status "Active"; Comply with all applicable rules or orders under TSCA and is (are) not a chemical substance in violation of TSCA or any applicable rule or order thereunder. Japan: listed in the Inventory of Existing and Notified Chemical Substances (ENCS). Philippines: listed/PMPIN approved in Philippine Inventory of Chemicals and Chemical Substances (PICCS). China: listed in the Inventory of Existing Chemical Substances in China (IECSC). Korea: listed in Korea Existing Chemicals List (KECL). New Zealand: listed in New Zealand Inventory of Chemicals (NZIoC) or not required to be listed. European Union: EINECS listed or polymer exempt.
15.2. Chemical safety assessment	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases:	None assigned

Revision information:	None relevant regarding hazard aspects or safety precautions. This Safety Data Sheet is generally valid for three years after the version date, provided when not superseded by a more recent version.
Hazard Classification:	The product is classified according to the EU Regulation No1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures (EU-GHS) which corresponds to the UN Globally Harmonized System of classification and labelling of chemicals (GHS) and the US OSHA Hazard Communication Standard 29 CFR 1910.1200 (US-GHS). For safe handling in the US: Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate solids. This Safety Data Sheet has been compiled in accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) No. 2020/878 .
Chain communication:	The recipient of this SDS is hereby strongly advised to inform its customer, who will be using this product, of the information contained herein, preferably by providing such customer with of a copy of this SDS.

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