

Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.18.2022

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PolarTex 05732

SECTION 1: Identification

Product identifier

Product name: PolarTex 05732

Synonyms: Food starch modified.



Recommended use of the product and restriction on use

Relevant identified uses: Binding or texturizing agent in food applications.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Supplier:

Canada

Cargill Limited
300-240 Graham Avenue
Winnipeg, MB R3C 4C5
204-947-6320

Emergency telephone number:

United States

VelocityEHS (formerly ChemTel, Inc)
1-800-255-3924 (North America)
+1-813-248-0585 (International)

SECTION 2: Hazard identification

GHS classification:

Combustible Dusts, category 1

Label elements

Hazard pictograms: None

Signal Word: Warning

Hazard statements:

Combustible Dust May form combustible dust concentrations in air.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment
P264 Wash hands thoroughly after handling.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P314 Get medical advice/attention if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P401 Store away from incompatible materials.
P501 Dispose of contents/container in accordance with local, regional, national, and international regulations

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Hazards not otherwise classified:

None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 53124-00-8	Hydroxypropyl distarch phosphate	100

Additional Information:

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

After inhalation:

Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

After skin contact:

Wash off with soap and water. Get medical attention if irritation develops and persists.

After eye contact:

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

After ingestion:

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Direct contact with eyes may cause temporary irritation.

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

Provide general supportive measures and treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Apply extinguishing media carefully to avoid creating airborne dust.

Avoid high pressure media which could cause the formation of a potentially explosive dust-air mixture.

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Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards during fire-fighting:

Dust may form explosive mixture with air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is potential dust explosion hazard.

Special protective equipment for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special precautions:

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

May form combustible dust concentrations in air.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Use an approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions:

Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use with adequate ventilation. Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid direct contact with eyes.

Conditions for safe storage, including any incompatibilities:

Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when

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subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Alberta	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 10 mg/m ³ (starch)
New Brunswick	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 10 mg/m ³ (starch)
Ontario	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 10 mg/m ³ (starch)
Quebec	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 10 mg/m ³ (starch, total dust)
Saskatchewan	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour Contamination Limit: 10 mg/m ³ (starch)
	Hydroxypropyl distarch phosphate	53124-00-8	15-Minute Contamination Limit: 20 mg/m ³ (starch)
British Columbia	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 3 mg/m ³ (starch, respirable fraction)
	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 10 mg/m ³ (starch, total dust)
Manitoba	Hydroxypropyl distarch phosphate	53124-00-8	8-Hour TWA: 10 mg/m ³ (starch)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protection equipment

Eye and face protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Hand protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other: Wear suitable protective clothing.

Wear appropriate thermal protective clothing, when necessary.

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Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use an approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

General hygienic measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Powder: White to off-white.
Odor:	Odorless.
Odor threshold:	Not determined or not available.
pH-value:	4-8 in aqueous solution.
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Combustible dust.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	Not determined or not available.
Solubilities:	Insoluble/partially soluble in water.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Material is stable under normal conditions.

Possibility of hazardous reactions:

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No dangerous reaction known under conditions of normal use.

Conditions to avoid:

Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimize dust generation and accumulation.

Humidity.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

Carbon oxides.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

Prolonged skin contact may cause temporary irritation.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

Direct contact with eyes may cause temporary irritation.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

Respiratory sensitization: No data available.

Skin sensitization: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Species	Result
	Not classifiable as to carcinogenicity to humans.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Hydroxypropyl distarch phosphate	Not Applicable

National Toxicology Program (NTP):

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Name	Classification
Hydroxypropyl distarch phosphate	Not Applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not classified.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not classified.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Not an aspiration hazard.

Substance data: No data available.

Information on likely routes of exposure:

Inhalation: Dust may irritate respiratory system.

Skin Contact: Dust or powder may irritate the skin.

Eye contact: Dust may irritate the eyes.

Ingestion: No harmful effects expected in amounts likely to be ingested by accident.

Symptoms related to the physical, chemical and toxicological characteristics:

Dusts may irritate the respiratory tract, skin and eyes.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment:

Not expected to be harmful to aquatic organisms.

Product data: No data available.

Substance data: No data available.

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Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

Disposal methods:

Disposal instructions: Dispose of contents/container in accordance with local/regional/national/international regulations. Local disposal regulations: Dispose in accordance with all applicable regulations. Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste from residues / unused products: Dispose of in accordance with local regulations.

Contaminated packages:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL): All ingredients are listed or exempt.

Non-domestic substances list (NDSL): None of the ingredients are listed.

Additional information: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

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Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

End of Safety Data Sheet