

## 1. Identification

**Product identifier:**

Product number: 36064102  
Product name: OPTIPRO® 650  
modified starch

**Other means of identification:**

Chemical family: Modified starch

**Recommended use and restrictions on use:**

Recommended use: Papermaking  
Restrictions on use: Not Available

**Initial supplier identifier:**

Ingredion Canada Corporation  
1600 - 90 Burnhamthorpe Road West  
Mississauga, Ontario, L5B 0H9, Canada  
(905) 281-7950 (business hours)

**Emergency telephone number and any restrictions on the use of that number, if applicable:**

MEDICAL: 1-866-374-2659 (Health & Safety Call Center - 24 hours)  
TRANSPORT: 1-800-424-9400 (CHEMTREC - 24 hours)

## 2. Hazard identification

Classification of the chemical is in accordance with Hazardous Products Regulations (HPR) as implemented under the Workplace Hazardous Materials Information System (WHMIS):

**GHS Hazard Symbols:** No hazard symbols required

**Hazard Statements:** May form combustible dust concentrations in air

**Label elements:**

**GHS Classification:** Combustible Dust  
**Signal Word:** Warning  
**Precautionary Statements:** No Precautionary Statement needed.

**Physical hazards not otherwise classified:**

**Hazard Category:** None known.  
**Hazard Statements:** None known.

**Health hazards not otherwise classified:**

**Hazard Category:** None known.

**Other hazards known to the supplier with respect to the hazardous product:** None known.

### 3. Composition/information on ingredients

Chemical Name	CAS registry number and any unique identifiers	Concentration (% by weight)
None classified as hazardous under the Workplace Hazardous Materials Information System (WHMIS).		

### 4. First-aid measures

**A description of necessary first-aid measures, subdivided according to the different routes of exposure (inhalation, ingestion, skin and eye contact):**

Inhalation:	Remove to fresh air. Get medical attention if irritation persists.
Ingestion:	None required.
Skin Contact:	Wash skin with soap and water.
Eye Contact:	Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart.

**Most important symptoms and effects, whether acute or delayed:** Possible physical irritant from dust particles. Potential for dust explosion.

**Indication of immediate medical attention and special treatment needed, if necessary:** No further first aid information is available.

### 5. Fire-fighting measures

**Suitable and unsuitable extinguishing media:**

Suitable extinguishing media:	Dry Chemical, CO2, Water Fog, Foam
Unsuitable extinguishing media:	None known.

**Specific hazards arising from the hazardous product:** Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 70 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.06 joules.

Hazardous combustion products:	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.
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**Special protective equipment and** No special procedures are required.

precautions for fire-fighters:

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment as required.

**Methods and materials for containment and cleaning up:**

Normal precautions for "nuisance dust" should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal.

## 7. Handling and storage

**Precautions for safe handling:**

As with all chemicals, good industrial hygiene practices should be followed when handling this material.

**Conditions for safe storage, including any incompatibilities:**

Safe storage conditions:

Keep container closed when not in use.

Sensitivity to Static Electricity:

Yes

Other precautions:

Use care to minimize dust generation in normal use conditions.

Avoid dispersing the powder in the air. Prevent buildup of powder on surfaces.

Materials to Avoid/Chemical Incompatibility:

None known

## 8. Exposure controls/personal protection

**Control parameters, including occupational exposure limit values or biological limit values and the source of those values:**

Chemical Name	OSHA PEL	ACGIH TLV-TWA	AIHA Exposure limits
No data available			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m<sup>3</sup>.

**Appropriate engineering controls:**

General.

**Individual protection measures, such as personal protective equipment:**

**Respiratory Protection:**

NIOSH approved dust mask.

**Eye protection:**

Chemical safety glasses.

**Skin protection:**

Skin protection may be required depending on product temperature.

**Gloves:**

Gloves are not normally required for foreseeable conditions of use.

**Other protective equipment:** Not normally required. Not applicable.  
**General hygiene conditions:** Wash before eating, drinking, or using toilet facilities.

## 9. Physical and chemical properties

### Appearance, such as physical state and colour:

Pure substance or mixture: Pure  
Physical state: Powder  
Colour: Off-white

**Odour:** Starch

**Odour threshold:** Not available

**pH:** Not available

**pH in (1%) Solution:** Approximately 6

### Melting point and freezing point:

Melting point (°C): Not available  
Freezing point (°C): Not available

**Initial boiling point and boiling range:** Not available

**Flash point:** Not applicable

**Evaporation rate:** Not applicable

**Flammability, in the case of solids and gases:** No

### Upper and lower flammability or explosive limits:

Upper flammability or explosive limits: Not available  
Lower flammability or explosive limits: Not available

**Vapour pressure:** Not available

**Vapour density:** Not available

**Relative density:** 1.5

**Solubility:** Insoluble

**Partition coefficient - n-octanol/water:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not applicable

**Volatiles:** None

**Volatile Organic Chemicals (VOC):** Not applicable

## 10. Stability and reactivity

**Reactivity:** Not expected to be reactive.

**Chemical stability:** Stable

<b>Possibility of hazardous reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid, including static discharge, shock or vibration:</b>	None known
<b>Incompatible materials:</b>	None known
<b>Hazardous decomposition products:</b>	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

## 11. Toxicological information

**Description of the various toxicological (health) effects and the available data used to identify those effects:**

<b>Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):</b>	Ingestion, Inhalation, Skin Contact, Eye Contact
<b>Target Organs Potentially Affected by Exposure:</b>	Not applicable.
<b>Symptoms related to the physical, chemical and toxicological characteristics:</b>	No data available
<b>Toxic effects:</b>	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.

**Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**

### Acute Toxicity:

Acute Toxicity - Oral:	Based on available data, the classification criteria are not met.
Acute Toxicity - Dermal:	Based on available data, the classification criteria are not met.
Acute Toxicity - Inhalation:	Based on available data, the classification criteria are not met.

### Skin Corrosion / Irritation:

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

### Eye Damage / Irritation:

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

### Respiratory Sensitization:

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

### Skin Sensitization:

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

### Germ Cell Mutagenicity:

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

### Reproductive Toxicity:

No.

### Carcinogenicity:

None known.

### STOT - single exposure:

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

### STOT - repeated exposure:

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

### Aspiration hazard:

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

**Numerical measures of toxicity including ATE's:**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
There is no known toxicity data available for the components or the product.			

**12. Ecological information**

**Ecotoxicity (aquatic and terrestrial if available):** No information available.

**Component toxicity data:**

Chemical Name	CAS registry number and any unique identifiers	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** Unknown

**Other adverse effects:** None known.

**13. Disposal considerations**

**Information on safe handling for disposal and methods of disposal, including any contaminated packaging:** Disposal should be in accordance with local, provincial or national legislation.

**Empty Container Warnings:** Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

**14. Transport information**
**TDG Classification:**

**UN number:** Not applicable

**United Nations proper shipping name as provided for in the United Nations Model Regulations:** Not Regulated

**Transport hazard class as provided in the United Nations Model Regulations:** Not applicable

**Packing group as provided in the United Nations Model Regulations:** Not applicable

**Toxic Inhalation Hazard Zone:** No data available

**Environmental hazards according to the International Maritime Dangerous Goods Code and the United Nations Model Regulation:** No data available

**Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)):** No data available

**Special precautions in connection with transport or conveyance either within or outside the premises:** Consult IMO regulations before transporting in bulk by ocean.

## 15. Regulatory information

Safety, health and environmental regulations made within or outside Canada, specific to the product in question:

<b>Canada - Domestic Substances List (DSL):</b>	On Inventory
<b>Canada - Non-Domestic Substances List (NDSL):</b>	Not On Inventory
<b>Canada - In-Commerce List (ICL):</b>	Not On Inventory

## 16. Other information

**Date of SDS preparation or last revision (mm-dd-yyyy):** 08-23-2023

**For product information, contact** Ingredion Incorporated  
Customer Service: 1-800-713-0208

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