

1. Identification

Product identifier:

Product number: 36364101
Product name: OptiBOND 1139
industrial starch modified

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.

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. If symptoms develop, obtain medical attention.

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, Carbon dioxide, 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.

Special protective equipment and precautions for fire-fighters:

No special procedures are required.

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/m³.

Appropriate engineering controls: General.

Individual protection measures, such as personal protective equipment:

Respiratory Protection: NIOSH approved dust mask.

Eye protection: Safety glasses recommended.

Skin protection:	Gloves are not normally required for foreseeable conditions of use.
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:	White

Odour: Starch

Odour threshold: Not available

pH: Not available

pH in (1%) Solution: Approximately 6.5

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
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid, including static discharge, shock or vibration:	None known
Incompatible materials:	None known
Hazardous decomposition products:	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:

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Ingestion, Inhalation, Skin Contact, Eye Contact
Target Organs Potentially Affected by Exposure:	Not applicable.
Symptoms related to the physical, chemical and toxicological characteristics:	No data available
Toxic effects:	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:

Low order of toxicity. Unlikely to cause harmful effects under recommended conditions of handling and use.

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:

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

Carcinogenicity:

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

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:

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

UN number: Not applicable
United Nations proper shipping name as provided for in the United Nations Model Regulations: Non Réglementé
Transport hazard class as provided in the Not applicable

United Nations Model Regulations:

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:

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

16. Other information

Date of SDS preparation or last revision (mm-dd-yyyy): 08-06-2024

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

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SAFETY DATA SHEET

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