



# Safety Data Sheet

OptiBOND 1139

## 1 Identification

**Product Identifier:**

**Product Number (New):** 36364101  
**Product Number (Old):** 51-8400

**Product Name:** OptiBOND 1139  
industrial starch modified

**Other means of identification:**

**Synonyms:** Not Available  
**Chemical Family:** Modified Starch

**Recommended use and restrictions on use:**

**Recommended use:** Papermaking  
**Restrictions on use:** Not Available

**Name, address, and telephone number of the chemical manufacturer, importer, supplier, or other responsible party:**

**Emergency phone number:**

## 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):

**Classification of the hazardous product:** Combustible Dust

**Label elements:**

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

**Signal Word:** Warning  
**Hazard Statements:** May form combustible dust concentrations in air  
**Precautionary Statements:** No Precautionary Statement needed.

**Other hazards known to the supplier with respect to the hazardous product:**

**Physical hazards not otherwise classified:** None known.

**Health hazards not otherwise classified:** None known.

### 3 Composition/information on ingredients

Chemical Name	CAS registry number and any unique identifiers	Concentration (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):**

<b>Inhalation:</b>	Remove to fresh air. Get medical attention if irritation persists.
<b>Eye contact:</b>	Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If symptoms develop, obtain medical attention.
<b>Skin Contact:</b>	Wash skin with soap and water.
<b>Ingestion:</b>	None required.
<b>The most important symptoms and effects, whether acute or delayed:</b>	Possible physical irritant from dust particles. Potential for dust explosion.
<b>An indication of immediate medical attention and special treatment needed, if necessary:</b>	No further first aid information is available.

### 5 Fire-fighting measures

**Suitable and unsuitable extinguishing media:**

<b>Suitable extinguishing media:</b>	Foam, Water Fog, CO2, Dry Chemical
<b>Unsuitable extinguishing media:</b>	No data available
<b>Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion:</b>	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.
<b>Hazardous Combustion Products:</b>	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

**Special protective equipment and precautions for firefighters:** No special procedures are required.

### 6 Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment as required.
<b>Methods and materials for containment and cleaning up:</b>	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:** Use care to minimize dust generation in normal use conditions.

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

**Special Sensitivity:** Not available

**Sensitivity to Mechanical Impact:** No

**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:**

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical Name	OSHA PEL	ACGIH TLV-TWA	AIHA Exposure limits	ACGIH - Biological Exposure Indices (BEI)
No data available				

**Appropriate engineering controls:** General.

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

**Respiratory Protection:** NIOSH approved dust mask.

**Eye and face protection:** Safety glasses recommended.

**Skin Protection:** Not applicable.

**Hand protection:** Gloves are not normally required for foreseeable conditions of use.

**Other protective equipment:** Not normally required.

**General hygiene conditions:** Wash before eating, drinking, or using washroom facilities.

**9 Physical and chemical properties**

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

**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:** Not available

**Freezing point:** No data available

<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not applicable
<b>Flammability, in the case of solids and gases:</b>	No
<b>Upper and lower flammability or explosive limits:</b>	
<b>Upper flammable or explosive limit, % in air:</b>	No data available
<b>Lower flammable or explosive limit, % in air:</b>	No data available
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.5
<b>Solubility:</b>	Insoluble
<b>Partition coefficient - n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Viscosity:</b>	No data available
<b>Volatiles:</b>	None
<b>Volatile Organic Chemicals (VOC):</b>	Not applicable

## 10 Stability and reactivity

<b>Reactivity:</b>	Not expected to be reactive
<b>Chemical stability:</b>	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 toxic health effects and the 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

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available

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

#### Immediate effects from short term exposure:

**Inhalation Toxicity:** No data available

**Skin Contact:** Low order of toxicity. Unlikely to cause harmful effects under recommended conditions of handling and use. Based on available data, the classification criteria are not met.

**Eye Contact:** No data available

<b>Ingestion Toxicity:</b>	No data available
<b>Delayed and chronic effects from long term exposure:</b>	
<b>Carcinogenicity:</b>	No data available
<b>Reproductive and Developmental Toxicity:</b>	No data available
<b>Mutagenicity:</b>	No data available
<b>Inhalation:</b>	No data available
<b>Skin Contact:</b>	No data available
<b>Skin Absorption:</b>	No data available
<b>Ingestion:</b>	No data available
<b>STOT-single exposure:</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Not applicable
<b>Aspiration hazard:</b>	Not applicable

**Numerical measures of toxicity, including Acute Toxicity Estimates:**

There is no known toxicity data available for the components or the product.

**12 Ecological information**

<b>Ecotoxicity (aquatic and terrestrial, if available):</b>	No information available.
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	Unknown
<b>Other adverse effects:</b>	No data available

**13 Disposal considerations**

<b>Information on safe handling for disposal and methods of disposal, including any contaminated packaging:</b>	Disposal should be in accordance with local, provincial or national legislation.
<b>Empty Container Warnings:</b>	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

**14 Transport information****Carriage of dangerous goods by road (TDG), rail or inland waterways:**

<b>T.D.G. Class:</b>	
<b>Shipping Name:</b>	Not Regulated
<b>Technical Name:</b>	No data available
<b>U.N. Number:</b>	No data available
<b>Class:</b>	No data available
<b>Packing Group:</b>	No data available
<b>Environmental hazards (e.g., Marine pollutant (Yes/No)):</b>	No data available



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**Special precautions:** 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

**Revision Date (mm-dd-yyyy):** 07-31-2021  
**FOR INFORMATION CONTACT:** For product information, contact:  
Ingredion Incorporated  
Customer Service: 1-800-713-0208

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