

Product name:  
Ingeo™ biopolymer  
Product code:  
4060D

Revision Number: 27

Revision date:  
08/10/2020

Print date:  
08/10/2020

## SAFETY DATA SHEET

Regulation (EC) No. 1907/2006

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: Ingeo™ biopolymer  
Product code: 4060D

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use: A biopolymer which can be used for thermoformed, coating, injection molded, blow molded, and fiber applications.

#### 1.3. Details of the supplier of the safety data sheet

Supplier:  
NatureWorks LLC  
15305 Minnetonka Blvd  
Minnetonka, MN 55345

sdsinquiry@natureworksllc.com  
952-562-3450

#### 1.4. Emergency telephone number

Emergency telephone numbers (24 hours a day):

(Medical Information) +1-(651)-632-9273  
(Transportation Information) CHEMTREC: +1-(800)-424-9300 (in the United States)  
(Transportation Information) CHEMTREC: +1-(703)-527-3887 (outside the United States)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified

#### 2.2. Label elements

Signal word: None  
Hazard Statements: None  
Precautionary Statements: None

#### 2.3. Other hazards

No information available

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### SECTION 3: Composition/information on ingredients

Chemical name and CAS	Weight %
Polylactide resin 9051-89-2	>98

**Other Standards:** This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m<sup>3</sup> for inhalable particulates and 3 mg/m<sup>3</sup> for respirable particulates.

### SECTION 4: First aid measures

**Emergency telephone numbers (24 hours a day):**

- (Medical Information) +1-(651)-632-9273
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- (Transportation Information) CHEMTREC: +1-(703)-527-3887 (outside the United States)

#### 4.1. Description of first aid measures

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Call a physician immediately

**Skin contact:** Adverse effects are not expected from accidental skin contact following occupational exposure. After contact with skin, wash immediately with plenty of water If skin irritation persists, call a physician Cool skin rapidly with cold water after contact with hot polymer. DO NOT attempt to remove hot polymer from skin or contaminated clothing as skin may be easily damaged. Call a physician immediately

**Inhalation:** Move to fresh air. Call a physician immediately

**Ingestion:** Drink water as a precaution. Never give anything by mouth to an unconscious person Do not induce vomiting without medical advice Call a physician immediately

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**Notes to physician:** Treat symptomatically

**4.2. Most important symptoms and effects, both acute and delayed**

No information available

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available

## SECTION 5: Firefighting measures

**Flammability:**

388 °C

**Flammability Limits in Air:**

**Flammable limits in air - lower (%):** Not applicable

**Flammable limits in air - upper (%):** Not applicable

**5.1. Extinguishing media**

**Suitable extinguishing media:** Foam. Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.

**Unsuitable extinguishing media:** - None known

**5.2. Special hazards arising from the substance or mixture**

Burning produces obnoxious and toxic fumes Aldehydes Carbon monoxide (CO) carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Under fire conditions:** Cool containers / tanks with water spray Water mist may be used to cool closed containers 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air)

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Use personal protective equipment as required
- Avoid contact with skin and eyes
- Avoid dust formation
- Remove all sources of ignition
- Sweep up to prevent slipping hazard

#### 6.1.2. For emergency responders

- Use with proper personal protective equipment (see Section 8).

### 6.2. Environmental precautions

- Do not flush into surface water or sanitary sewer system
- Do not allow material to contaminate ground water system.

### 6.3. Methods and material for containment and cleaning up

- Clean up promptly by scoop or vacuum.
- Sweep up and shovel into suitable containers for disposal

### 6.4. Reference to other sections

- No information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Use personal protective equipment as required
- Avoid contact with skin and eyes
- Low hazard for usual industrial or commercial handling
- Workers should be protected from the possibility of contact with molten material during fabrication
- Avoid dust formation
- May form combustible dust concentrations in air if small particles are generated during further processing, handling or by other means

### 7.2. Conditions for safe storage, including any incompatibilities

- Store at temperatures not exceeding 50 °C/ 122 °F. Keep cool
- No special restrictions on storage with other products.

### 7.3. Specific end use(s)

- No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits:**

Not established. • This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m<sup>3</sup> for inhalable particulates and 3 mg/m<sup>3</sup> for respirable particulates.

**Engineering measures:**

- Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
- Provide appropriate exhaust ventilation at places where dust is formed.

### 8.2. Exposure controls

**Eye protection:** Safety glasses with side-shields. Goggles

**Skin and body protection:** Impervious clothing

**Respiratory protection:** Respirator must be worn if exposed to dust. Wear respirator with dust filter. Respiratory protection is needed if any of the exposure limits in Section 3 are exceeded. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive-pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Hand protection:** Preventive skin protection.

**Hygiene measures:** Avoid contact with skin, eyes and clothing.

**Special hazard:** Workers should be protected from the possibility of contact with molten material during fabrication.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state:** Solid

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<b>Appearance:</b>	Clear, translucent, opaque, pellets.
<b>Color:</b>	Clear, Translucent, Opaque
<b>Odor:</b>	Sweet
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	Not determined
<b>Vapor density:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Density:</b>	1.25
<b>Decomposition temperature:</b>	482F (250C)
<b>Boiling point / boiling range:</b>	Not applicable
<b>Melting point / melting range:</b>	150-180C (302- 356F), Tg (Glass Transition Temperature): 55-60C (131-140F)
<b>Autoignition temperature:</b>	388 °C
<b>Flammability:</b>	Fine dust dispersed in air may ignite
<b>Flammability Limits in Air:</b>	No information available
<b>Water solubility:</b>	Insoluble
<b>Solubility in other solvents:</b>	Not determined
<b>Solubility:</b>	Not determined

## 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None under normal use conditions

#### 10.2. Chemical stability

Stable under recommended storage conditions

#### 10.3. Possibility of hazardous reactions

None under normal use conditions

#### 10.4. Conditions to avoid

Temperatures above 446F (230 °C).

Avoid keeping resin molten for excessive periods of time at elevated temperatures.  
Prolonged exposure will cause polymer degradation

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### 10.5. Incompatible materials

Oxidizing agents  
Strong bases

### 10.6. Hazardous decomposition products

Burning produces obnoxious and toxic fumes  
Aldehydes  
Carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Principle routes of exposure:</b>	Eye contact Skin contact Inhalation Ingestion
<b>Acute toxicity:</b>	There were no target organ effects noted following ingestion or dermal exposure in animal studies.
<b>Local effects:</b>	Product dust may be irritating to eyes, skin and respiratory system Resin particles, like other inert materials, are mechanically irritating to eyes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
<b>Specific effects:</b>	May cause skin irritation and/or dermatitis Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough Burning produces irritant fumes.
<b>Long term toxicity:</b>	Did not cause skin allergic reactions in skin sensitization studies using guinea pigs.
<b>Mutagenic effects:</b>	Not mutagenic in AMES Test
<b>Reproductive toxicity:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
<b>Target organ effects:</b>	There were no target organ effects noted following ingestion or dermal exposure in animal studies.
<b>Skin:</b>	LD50/dermal/rabbit > 2000 mg/kg

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**Ingestion:** Oral LD50 (rat) >5000 mg/kg

**Further information:** No information available

## SECTION 12: Ecological information

### 12.1. Toxicity

EC50/72h/algae > 1100 mg/L

### 12.2. Persistence and degradability

Inherently biodegradable under industrial composting conditions

### 12.3. Bioaccumulative potential

Not expected to bioconcentrate or bioaccumulate.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

Not applicable

### 12.6. Other adverse effects

No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

In compliance with the requirements of Directive 2008/98/EC

**Waste from residues / unused products:** In accordance with local and national regulations Should not be released into the environment Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer.

**Contaminated packaging:** Empty remaining contents Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

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## SECTION 14: Transport information

Applicable to: ADR/RID: IMDG: ICAO/IATA: ADN

- 14.1. UN number None
- 14.2. UN proper shipping name None
- 14.3. Transport hazard class(es) None
- 14.4. Packaging group None
- 14.5. Environmental hazards None
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code None

## SECTION 15: Regulatory information

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

- No information available

15.2. Chemical safety assessment

- Not applicable

### Regulatory Information:

(not meant to be all inclusive - selective regulations represented)

Regulatory requirements are subject to change and may differ between locations. It is the User's responsibility to ensure that all activities comply with all federal, state or provincial and local laws and regulations. The following specific information is made for the purpose of complying with numerous national, federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

### U.S. REGULATIONS

Sara 313 title III: Not Listed

TSCA Inventory List: Listed

### STATE REGULATIONS

California Proposition 65: Not Listed

### INTERNATIONAL INVENTORIES

Canada DSL Inventory List : Listed

REACH/EU EINECS List : Components are in compliance with and/or are listed.

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**Japanese inventory (ENCs):** Listed  
**Australia (AICS):** Listed  
**Korean chemical inventory:** Listed  
**Phillipines (PICCS) inventory:** Contact NatureWorks for additional information.  
**Taiwan Chemical Substance inventory (TCSI):** Listed  
**China inventory of existing chemical substances list :** Listed

## SECTION 16: Other information

**Label information:** Ingeo™ biopolymer  
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**Reason for revision:** Document Review

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**Prepared by:** NatureWorks LLC Health and Safety

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