

Product name:  
INGEO™ BIOPOLYMER  
Product code:  
3D850

Revision Number: 11.01      Revision date:  
01/12/2026

Print Date:  
01/12/2026

## SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1. Product identifier

Product name: INGENO™ BIOPOLYMER

Product code: 3D850

EC-No: 618-575-7

CAS No: 9051-89-2

Unique Formula Identifier (UFI):

Product Information: This document is provided to communicate information in accordance with Article 32 of Regulation (EC) No 1907/2008 for a substance or mixture which does not legally require a safety data sheet (SDS)

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

Product Use: A biopolymer to be used in 3D printing applications

Uses advised against: Not intended for household use and Consumer use

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

Supplier:

NatureWorks

17400 Medina Rd, Suite# 800

Plymouth, MN 55447

sdsinquiry@natureworksllc.com

#### 1.4. Emergency telephone number

Emergency telephone numbers (24 hours a day):

Health services: +1-(651)-632-9273

Transport Information: CHEMTREC (Chemical Transportation Emergency Centre)

United States of America +1-(800)-424-9300 International +1-(703)-527-3887

#### Additional information:

CHEMTREC (Chemical Transportation Emergency Centre) +44 20 3885 0382 Emergency telephone number Europe 112, Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97

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## SECTION 2: Hazards identification

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

2.1.1. Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Not classified

### 2.2. Label elements:

**Signal word:** None

**Hazard Statements:** None

**Precautionary Statements:** None

**2.3. Other hazards:** May form combustible dust concentrations in air if small particles are generated during further processing, handling or by other means. Refer to protective measures listed in Sections 7 and 8

**Further information:**

Avoid release to the environment, Harmful to Environment (See Section 15 for Regulatory Information.)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name and CAS	EC-No	Weight-%	Classification
1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione (Polylactide) 9051-89-2	618-575-7	>98	Not classified

**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.

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## SECTION 4: First aid measures

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

**Health services:** +1-(651)-632-9273

**Transport Information:** CHEMTREC (Chemical Transportation Emergency Centre)  
United States of America +1-(800)-424-9300 International +1-(703)-527-3887

**Additional information:**

CHEMTREC (Chemical Transportation Emergency Centre) +44 20 3885 0382 Emergency  
telephone number Europe 112, Poison Control and Information Centre, Warsaw (PL): +48  
22 619 66 54; +48 22 619 08 97

### 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 doctor immediately

**Skin contact:** Adverse human health effects and symptoms, Not expected, After contact with skin, wash immediately with plenty of water, If skin irritation persists, call a doctor, After contact with molten product, cool skin area rapidly with cold water, Do not try to remove solidified material from the skin, Do not remove clothing if adhering to skin, Call a doctor immediately

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours Call a doctor immediately

**Ingestion:** Clean mouth with water and drink afterwards plenty of water, Never give anything by mouth to an unconscious person, Do not induce vomiting without medical advice, Call a doctor immediately

**Notes to physician:** Treat symptomatically

**4.2. Most important symptoms and effects, both acute and delayed:** No data available

**4.3. Indication of any immediate medical attention and special treatment needed:** No data available

## SECTION 5: Firefighting measures

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**Flammability:**

**Auto-ignition temperature:** 730°F / 388°C

**Flammability Limits in Air:**

**Lower flammability limit:** Not determined

**Upper flammability limit:** Not determined

**5.1. Extinguishing media**

**Suitable extinguishing media:** Foam. Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Preferably extinguish with alcohol-resistant foam. If alcohol-resistant foam is not available, use normal foam.

**Unsuitable extinguishing media:** None known

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

Hazardous decomposition products: 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

**Fire-fighting measures:** 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).

**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 personal protection recommended in Section 8.

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**6.2. Environmental precautions:**

Do not flush into surface water or sanitary sewer system. Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up:**

Eliminate all ignition sources. Use explosion-proof equipment. Dust can be a fire or explosion hazard. Vacuum or sweep material and place in a disposal container. Keep in suitable, closed containers for disposal.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling:**

Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin and eyes. Low hazard for usual industrial or commercial handling. After contact with molten product, cool skin area rapidly with cold water. Do not try to remove solidified material from the skin. Do not remove clothing if adhering to skin. 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

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**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****8.2.1. Appropriate Engineering Controls:**

**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)

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TLV/TWA for PNO is 10 mg/m<sup>3</sup> for inhalable particulates and 3 mg/m<sup>3</sup> for respirable particulates.

#### 8.2.2. Personal protection equipment:

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

**Skin and body protection:** Impervious clothing

**Hand protection:** preventive skin protection.

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

**Special hazard:** Workers should be protected from the possibility of contact with molten material during fabrication. Contact with molten substance may cause severe burns to skin and eyes.

**8.2.3. Environmental exposure controls:** Do not flush into surface water or sanitary sewer system. Do not allow to enter into surface water or drains.

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## SECTION 9: Physical and chemical properties

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

<b>Physical state:</b>	Solid
<b>Appearance:</b>	pellets
<b>Colour:</b>	Clear, Translucent, Opaque
<b>Odour:</b>	Sweet
<b>pH:</b>	Not applicable
<b>Vapour pressure:</b>	Not determined
<b>Vapour density:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Density:</b>	1.25 g/cm <sup>3</sup> @ 20 °C, 101.3 kPa
<b>Decomposition temperature:</b>	482°F / 250°C @ 101.3 kPa
<b>Boiling point / boiling range:</b>	Not applicable
<b>Melting point / melting range:</b>	150-180°C (302- 356°F), Tg (Glass Transition Temperature): 55-60°C (131-140°F) @ 101.3 kPa
<b>Auto-ignition temperature:</b>	730°F / 388°C
<b>Flash point:</b>	Not determined
<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
<b>Particle characteristics:</b>	No information available

### 9.2. Other information

#### 9.2.1. Information with regards to physical hazard classes

Workers should be protected from the possibility of contact with molten material during fabrication.

#### 9.2.2. Other safety characteristics:

See section 8 for more information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity:

None under normal use conditions

### 10.2. Chemical stability:

Stable under recommended storage conditions.

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**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 at temperatures above 230 °C. Prolonged exposure above 230 °C will cause polymer degradation.

**10.5. Incompatible materials:**

oxidising 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 hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity:** Based on available data, the classification criteria are not met. There were no target organ effects noted following ingestion or dermal exposure in animal studies.

**1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with  
rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and  
(3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione (Polylactide)**

LD50/dermal/rabbit &gt; 2000 mg/kg

Oral LD50 (rat) &gt;5000 mg/kg

**Principle routes of exposure:**

Eye contact, Skin contact, Inhalation, Ingestion

**Skin:**

LD50/dermal/rabbit &gt; 2000 mg/kg

**Ingestion:**

Oral LD50 (rat) &gt;5000 mg/kg

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met

**Long term toxicity:**

Did not cause skin allergic reactions in skin sensitization studies using guinea pigs.

**Serious eye damage/eye irritation:** Based on available data, the classification criteria are not met

**Respiratory or skin sensitisation:** Based on available data, the classification

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criteria are not met

**Germ cell mutagenicity:** Not mutagenic in AMES Test

**Carcinogenic effects:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

**Reproductive toxicity:** Based on available data, the classification criteria are not met

**STOT - single exposure; STOT - repeated exposure:** Based on available data, the classification criteria are not met

**Target organ effects:** There were no target organ effects noted following ingestion or dermal exposure in animal studies.

**Aspiration hazard:** Based on available data, the classification criteria are not met

#### 11.2. Information on other hazards

**Local effects:** 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 diarrhoea.

**Specific effects:** May cause skin irritation and/or dermatitis Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough Burning produces irritant fumes.

**11.2.1. Endocrine disrupting properties:**  
No data is available on the product itself.

**11.2.2. Other information:**  
Avoid release to the environment, Harmful to Environment

## SECTION 12: Ecological information

### 12.1. Toxicity:

EC50/72h/algae > 1100 mg/L

1,4-Dioxane-2,5-dione, 3,6-dimethyl-, (3R,6R)-, polymer with  
rel-(3R,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione  
(Polylactide)

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EC50/72h/algae &gt; 1100 mg/L

**12.2. Persistence and degradability:**

No data available

**12.3. Bioaccumulative potential:**

Not likely to bioaccumulate

**12.4. Mobility in soil:**

No data available

**12.5. Results of PBT and vPvB assessment:**

Not applicable

**12.6. Endocrine disrupting properties:** No data is available on the product itself.**12.7. Other adverse effects:**

Avoid release to the environment, Harmful to Environment

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste from residues / unused products:** In accordance with local and national regulations. Discharge into the environment must be avoided. Prevent environmental discharge consistent with regulatory requirements. 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:**

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**ADR/RID:**

**ICAO/IATA:**

**IMDG:**

**US DOT (Department of Transportation):**

**14.1. UN number:** None

**14.2. UN proper shipping name:** None

**14.3. Transport hazard class(es):** None

**Packaging group:** None

**14.5. Environmental hazards:** None

**14.6. Special precautions for user:** None

**14.7. Maritime transport in bulk according to IMO instruments:** None

## SECTION 15: Regulatory information

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

**Other regulations (EU):** The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Avoid release to the environment, Harmful to Environment



### 15.2. Chemical safety assessment:

Not applicable.

### Regulatory Information:

(Not meant to be all inclusive--selected regulations represented)

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**U.S. REGULATIONS**

**SARA Title III Rules:** Not Listed

**US TSCA Inventory listing:** Active, Listed

**State Regulations**

**California Proposition 65:** Not Listed

**International Inventories**

**Canada DSL Inventory List :** Listed

**REACH/EU EINECS List :** Compliance with technical regulations

**ENCS (Japan):** Listed

**Australian Industrial Chemicals Introduction Scheme (AICIS):** Listed

**Korean chemical inventory:** Listed

**Philippines (PICCS) inventory:** Contact supplier for inventory compliance status

**China inventory of existing chemical substances list :** Listed

**TCSI - Taiwan Chemical Substance Inventory:** Listed

**SECTION 16: Other information**

**Label information:** INGEO™ BIOPOLYMER  
**Product code:** 3D850

**Reason for revision:** Document Review

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

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