

Product name:
INGEO™ BIOPOLYMER
Product code:
4043D

Revision Number: 31.01 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: 4043D

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 which can be used for thermoformed, coating, injection molded, blow molded, and fiber applications, For industrial use only

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:

Emergency telephone number Europe 112, CHEMTREC (Chemical Transportation Emergency Centre) +44 20 3885 0382

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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/m³ for total dust and 5 mg/m³ for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m³ for inhalable particulates and 3 mg/m³ 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:

Emergency telephone number Europe 112, CHEMTREC (Chemical Transportation Emergency Centre) +44 20 3885 0382

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 (CO₂). 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 (CO₂)

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/m³ for total dust and 5 mg/m³ for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH)

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TLV/TWA for PNOC is 10 mg/m³ for inhalable particulates and 3 mg/m³ 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

Physical state:	Solid
Appearance:	pellets
Colour:	Clear, Translucent, Opaque
Odour:	Sweet
pH:	Not applicable
Vapour pressure:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Density:	1.25 g/cm ³ @ 20 °C, 101.3 kPa
Decomposition temperature:	482°F / 250°C @ 101.3 kPa
Boiling point / boiling range:	Not applicable
Melting point / melting range:	150-180°C (302- 356°F), Tg (Glass Transition Temperature): 55-60°C (131-140°F) @ 101.3 kPa
Auto-ignition temperature:	730°F / 388°C
Flash point:	Not determined
Flammability:	Fine dust dispersed in air may ignite
Flammability Limits in Air:	No information available
Water solubility:	Insoluble
Solubility in other solvents:	Not determined
Solubility:	Not determined
Particle characteristics:	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 (CO₂)

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 > 2000 mg/kg

Oral LD50 (rat) >5000 mg/kg

Principle routes of exposure: Eye contact, Skin contact, Inhalation, Ingestion

Skin: LD50/dermal/rabbit > 2000 mg/kg

Ingestion: Oral LD50 (rat) >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 > 1100 mg/L

12.2. Persistence and degradability:

Inherently biodegradable under industrial composting conditions

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: 4043D

Reason for revision: Document Review

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Prepared by: NatureWorks LLC Health and Safety

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