

Product name:
INGEO™ LACTIDE
Product code:
M3002

Revision Number: 10

Revision date:
07/06/2022

Print Date:
07/06/2022

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: INGEO™ LACTIDE
Product code: M3002
EC-No: 202-468-3
CAS-No.: 95-96-5
REACH Reg. No: 01-2119533056-46-XXXX

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

Product Use: Use as an intermediate, Polymer preparations and compounds, raw material for polymer (monomer)

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):

(Medical Information)+1-(651)-632-9273

(Transportation Information) CHEMTREC: 800-424-9300 (in the United States)

(Transportation Information) CHEMTREC: (703) 527-3887 (outside the United States)

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]
 Serious Eye Damage/Eye Irritation; Category 1

2.2. Label elements:



Signal word: Danger

Hazard Statements: H318 - Causes serious eye damage

Precautionary Statements: P280 - Wear protective gloves/protective clothing/eye protection/face protection
 Do not get in eyes
 P260
 Do not breathe dust or spray mist
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards: Decomposes in contact with water. Hazardous decomposition products: Lactic Acid. The following addresses exposure to some of the ingredients of Lactic Acid, not exposure to the product. Avoid contact with eyes, skin and clothing. Contact may irritate or burn skin and eyes. Contact may cause burns to skin and eyes. May cause permanent eye injury. For additional information, see Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	EC-No:	Weight %	Classification:
3,6-Dimethyl-1,4-dioxane-2,5-dione	202-468-3	90 - 100%	H318 - Causes serious eye damage

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Other Standards: None

REACH Reg. No: 01-2119533056-46-XXXX

SECTION 4: First aid measures

Emergency telephone numbers (24 hours a day):

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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 Remove any contact lenses if easy to do. Call a physician or Poison Control Center immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes. If symptoms persist, call a doctor

Inhalation: Move to fresh air. If symptoms persist, call a doctor

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person

Notes to physician: Treatment should be symptomatic and supportive

4.2. Most important symptoms and effects, both acute and delayed: Risk of serious damage to eyes

4.3. Indication of any immediate medical attention and special treatment needed: None known

SECTION 5: Firefighting measures

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Flammability:

Auto-ignition temperature: Not determined

Flammability Limits in Air:

Flammable limits in air - lower (%): Not determined

Flammable limits in air - upper (%): Not determined

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂). Dry chemical. Foam. Water spray or fog. 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: - Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture:

Hazardous decomposition products: Carbon dioxide, Carbon monoxide (CO), Aldehydes, organic acids

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, Evacuate area and fight fire from a safe distance, Avoid contact with skin and eyes, In case of contact, Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection

Under fire conditions: Water mist may be used to cool closed containers

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. Ensure adequate ventilation. Avoid breathing vapours or mists.

6.1.2. For emergency responders:

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Soak up with inert absorbent

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material. Clean up under the supervision of an expert after material has solidified. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing vapours or mists. Avoid contact with eyes. Sweep up to prevent slipping hazard.

6.2. Environmental precautions:

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

6.3. Methods and material for containment and cleaning up:

Protect from water. Soak up with inert absorbent material. Allow material to solidify, and scrape up. Sweep up and shovel into suitable containers for disposal. Decomposes in contact with water. Do not release unneutralised acid. Absorb spilled liquid in suitable material. See section 13 for more information.

6.4. Reference to other sections: For further specification, refer to section 8 of the SDS

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Workers should be protected from the possibility of contact with molten material during fabrication. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep under nitrogen blanket. Solidifies at about 176 °F (80 °C). Handling: Temperatures above 100 °C / 212 °F

7.3. Specific end use(s):

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Engineering measures: Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

8.2. Exposure controls

8.2.1. Appropriate Engineering Controls:

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Exposure limits: Not Established.

8.2.2. Personal protection equipment:

Eye protection: Goggles face-shield. safety glasses with side-shields.

Skin and body protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

Hand protection: preventive skin protection. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed

Hygiene measures: Ensure that eyewash stations and safety showers are close to the workstation location Handle in accordance with good industrial hygiene and safety practice Keep working clothes separately

Respiratory protection: Vapours and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract Use NIOSH-approved air-purifying respirator with organic vapour cartridge or canister, as appropriate 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.

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

8.2.3. Environmental exposure controls: Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid, Liquid
Colour:	Yellow, Amber
Odour:	Acrid
pH:	No information available
Vapour pressure:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Partition Coefficient (n-octanol/water):	Not determined
Density:	Not determined
Decomposition temperature:	Not determined
Boiling point / boiling range:	482-500°F / 250-260°C, @ 101.3 kPa
Melting point / melting range:	131°F / 55°C, @ 101.3 kPa
Auto-ignition temperature:	Not determined
Flash point:	150-160 °C
Flammability:	No information available
Flammability Limits in Air:	No information available
Water solubility:	Not determined
Solubility:	No information available
Viscosity:	Not determined
Other Standards:	None

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. Contact with product at elevated temperatures can result in thermal burns

9.2.2. Other safety characteristics:

See section 8 for more information

SECTION 10: Stability and reactivity

10.1. Reactivity:

No data available

10.2. Chemical stability:

Hygroscopic. Stable under recommended storage conditions.

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10.3. Possibility of hazardous reactions:

None expected under conditions of normal use

10.4. Conditions to avoid:

Temperatures above 440F (230C). Exposure to moisture. Heat. Due to gaseous decomposition products, over-pressure can occur in tightly sealed containers.

10.5. Incompatible materials:

Strong bases. oxidising agents. Nitric acid. Hydrofluoric acid.

10.6. Hazardous decomposition products:

Carbon dioxide, Carbon monoxide (CO), Aldehydes, organic acids

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Specific symptoms in animal studies. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause adverse kidney effects.

Principle routes of exposure:	Eye contact, Skin contact, Inhalation, Ingestion
Skin:	LD50/dermal/rabbit > 2000 mg/kg
Ingestion:	LD50/oral/rat = >5000 mg/kg

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

Long term toxicity: No data available

Serious eye damage/eye irritation: Causes serious eye damage

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met

Germ cell mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not show mutagenic effects in animal experiments

Carcinogenic effects: Based on available data, the classification criteria are not met

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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: Reported animal effects In case of ingestion Organs affected: stomach kidneys

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

11.2. Information on other hazards

Local effects: Decomposes in contact with water. Hazardous decomposition products: Lactic Acid. The following addresses exposure to some of the ingredients of Lactic Acid, not exposure to the product. Avoid contact with eyes, skin and clothing. Contact may irritate or burn skin and eyes. Contact may cause burns to skin and eyes. May cause permanent eye injury. For additional information, see Safety Data Sheet.

Specific effects: Inhalation may provoke the following symptoms: Lung irritation severe shortness of breath Difficulty in breathing Ingestion may provoke the following symptoms: Nausea diarrhoea Vomiting

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

11.2.2. Other information:

SECTION 12: Ecological information

12.1. Toxicity:
No data available

12.2. Persistence and degradability:
No data available

12.3. Bioaccumulative potential:
Bioconcentration factor (BCF) < 100 Not likely to bioaccumulate

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12.4. Mobility in soil:

Partition coefficient n-octanol /water (log KOW) = 1.65 Henry's Law Constant = 1.22×10^{-5} atm m³/mol log Koc = 50 If product enters soil, it will be mobile and may contaminate groundwater

12.5. Results of PBT and vPvB assessment:

No data available

12.6. Endocrine disrupting properties:

No data is available on the product itself.

12.7. Other adverse effects:

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Waste from residues / unused products: Dispose of in accordance with federal, state and local regulations. Dispose of wastes in an approved waste disposal facility. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 14: Transport information

Applicable:

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

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14.5. Environmental hazards: None

14.6. Special precautions for user: None

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

Additional information: *Elevated temperature information for transport, Temperatures above 100 °C / 1003 °F, UN3257, Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point, 9, III, APPLIES ONLY DURING ROAD TRANSPORT, IATA - Substances Forbidden from Air Transport*

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment:

No data available.

Regulatory Information:

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

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U.S. REGULATIONS

TSCA Inventory List: Listed

State Regulations

California Proposition 65: Not Listed

International Inventories

Canada NDSL Inventory List : Listed

REACH/EU EINECS List : Listed

Japanese inventory (ENCS): Listed

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Australian Industrial Chemicals Introduction Scheme (AICIS): Not Listed
Korean chemical inventory: Listed
Phillipines (PICCS) inventory: Not Listed
China inventory of existing chemical substances list : Not Listed
TCSI - Taiwan Chemical Substance Inventory: Listed

SECTION 16: Other information

Label information: INGEO™ LACTIDE
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Reason for revision: SDS sections updated

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Prepared by: NatureWorks LLC Health and Safety

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