

ecoPLAS® BIO201 SAFETY DATA SHEET



Section 1: Product & Company Identification

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Product Name: ecoPLAS™ 201 Series Biodegradable & Compostable Plastic Alternative
Product Use: 3D Print, Thermoforming, Sheet, Injection Mold (Drop-in)

Chemical Name: Proprietary Material Compound
Chemical Family: Thermoplastic compound, stabilized

Recommended Use:

May be used to produce injection molded, extruded, 3D printed or thermoformed/sheet articles or as a component of other products.

Restrictions on Use: None known.

Section 2: Hazard(s) Identification

Emergency Overview: May cause eye, skin, and respiratory irritation if dust forms. Ingestion may cause gastric disturbances.

Note: No hazards expected with normal handling and processing. No known hazards in final pellet form.

GHS/CLP: Eye Irr. 2;H319 – Skin Irr. 2;H317 – STOT SE 3;H335

Label Elements:

Hazard Statements:

Hazards: No hazard is expected under intended use and appropriate handling. Symptoms: No significant reaction of the human body to the product known. **Note: Hazards apply to non-compounded elements, not the compounded ecoPLAS® material itself.**

General Precautionary Statements:

P280 Wear protective clothing, gloves, eye, and face protection.
P320/352 IF ON SKIN: Wash with plenty of water.

Chemical Ingredient	CAS No.	SARA 313
ecoPLAS® BIO201	Proprietary	No

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332/313 If skin irritation occurs: Get medical advice/attention.
P337/313 If eye irritation persists: Get medical advice/attention.

Section 3: Composition/Information on Ingredients

The specific chemical identity and exact percentage of composition has been withheld as a trade secret.

Section 4: First Aid Measures

Following inhalation: Remove the affected individual into fresh air. If coughing or symptoms persist, seek medical attention. Assist in breathing if necessary.

Following skin contact: Remove excess material with cloth or paper. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Following eye contact: Rinse immediately for a minimum of 15 minutes with plenty of water. If irritation develops, seek medical attention.

Following ingestion: Ingestion is not likely under normal conditions. If ingestion occurs, seek medical attention.

Section 5: Fire Fighting Measures

Extinguishing Media: Water spray, foam, carbon dioxide, or dry chemical.

Fire Fighting Procedures: Wear full gear with SCBA. Cool endangered containers with water.

Fire & Explosive Hazards: Dust & Fire hazard is not likely under normal conditions. Dust fines may explode. Products of combustion may be toxic.

Hazardous Decomposition Products: Possibility of forming oxides of carbon and nitrogen.

Section 6: Accidental Release Measures

In case of spills or leaks:

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Sweep up and shovel into suitable, properly labeled containers for prompt disposal after dusting surfaces with sand to prevent sticking. Possible fall hazard as floor may become slippery from leakage/spillage of product. Avoid dispersal of spilled material and runoff and do not allow material to come in contact with soil, waterways, drains, and sewers. Consult a regulatory specialist to determine the appropriate state or local reporting requirements and for assistance in waste characterization and/or hazardous waste disposal.

Section 7: Handling & Storage

Handling: Wear nitrile gloves when necessary.

Storage:

General Advice: Keep container tightly closed. Store in a cool, dry place.

Storage Stability: Protect against moisture. Avoid direct sunlight. Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame. Do not allow contamination with other substances. Storage together with other substances, especially hazardous substances, must be avoided.

Incompatibilities: Avoid contact with acids and strong oxidizers.

Section 8: Exposure Controls/Personal Protection

Component Control Parameters:

The below data is applicable to particles not otherwise specified or nuisance dust as outlined in the Airborne Exposure Guidelines.

In normal circumstances, the product will not emit dust in its pellet compounded and supplied form.

Form of Nuisance Dust	ACGIH TLV (TWA)	OSHA PEL
Inhalable Particles	10 mg/m ³	-
Respirable Particles	3 mg/m ³	5 mg/m ³
Total Dust	-	15 mg/m ³

Engineering Control: Provide local exhaust ventilation to control dusts/vapors.

Personal Protective Equipment:

Respiratory Protection: Wear a NIOSH-certified (or equivalent) particulate respirator. Wear respiratory protection if ventilation is inadequate. Do not exceed the maximum use concentration for the respirator face piece/cartridge combination. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator

Skin Protection: Wear nitrile gloves to prevent contact during mechanical processing and/or hot melt conditions.

Eye Protection: Recommended safety glasses with side shields/chemical safety goggles and readily accessible Eye wash fountains..

General Safety: Avoid contact with eyes, skin, and clothing. Do not eat, drink, or smoke when handling material. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

Section 9: Physical & Chemical Properties

Physical State/Appearance: Solid pellets, off-white

Odor: Minimal odor

Odor Threshold: N/A

pH:	N/A
Melting point:	DSC melting point 113.30 °C (271.94 °F)
Freezing point:	N/A
Initial boiling point & boiling range:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability (solid, gas):	N/A
Upper/lower flammability or explosive limits:	N/A
Vapor pressure:	N/A
Vapor density:	N/A
Relative density:	N/A
Solubility in water:	Negligible
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A

Section 10: Stability & Reactivity

Stability: Chemically stable solid.

Conditions to Avoid: None known.

Hazardous Decomposition Products: Possibility of forming oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid contact with acids and strong oxidizers.

Section 11: Toxicological Information

Acute Toxicity:

Ingestion: Irritating by ingestion. May cause stomach pain, nausea, and vomiting.

Skin Contact: Irritating and may cause redness. Contact in molten state can cause serious burns.

Eye Contact: Irritating and may cause redness and pain. Products of thermal decomposition can be irritating.

Inhalation: Not relevant under normal conditions. When heated, irritating vapors may be formed.

Chronic Toxicity: No data available.

Section 12: Ecological Information

There have been no known studies on ecological impacts of this material.

Section 13: Disposal Considerations

Material that cannot be used, reprocessed, or recycled should be disposed of according to Federal, State, and local laws and regulations.

Section 14: Transportation Information

Shipping descriptions may vary based on the mode of transportation, origin, destination, and quantity of goods being shipped.

US DOT: Class not regulated.

SEA-INDG: Class not regulated.

AIR-ICAO: Class not regulated.

Section 15: Regulatory Information

U.S. Federal Regulations:

TSCA: Material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

CERCLA: Material does not contain any CERCLA regulated chemicals.

SARA 311/312 Hazard Class: Material does not present any SARA 311/312 hazards.

SARA 313 Chemicals: Material does not contain any SARA 313 chemicals above de minimis levels.

Section 16: Other Information

Acronyms & Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists

TLV – Threshold Limit Values

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limits
DOT – Department of Transportation
SEA-IMDG – International Maritime Dangerous Goods
AIR-ICAO – International Civil Aviation Organization
TSCA – Toxic Substances Control Act
CERCLA – Comprehensive Environmental Response, Compensation, & Liability Act
SARA – Superfund Amendments & Reauthorization Act

Relevant H-Statements:

- H319 Causes serious eye irritation if dust is formed. Not expected under normal circumstances or handling.
- H335 May cause respiratory irritation if dust is formed. Not expected under normal circumstances or handling.
- H317 May cause an allergic skin reaction. Not expected under normal circumstances or handling.

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