

SAFETY DATA SHEET



Product Name: NuPlastiQ® GP 1000 BioPolymer
Product No: NuPlastiQ® GP 1000
Revision Date: 13 March 2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	NuPlastiQ® GP 1000 BioPolymer
Common Names	NuPlastiQ® GP General Purpose BioPolymer, BioLogiQ Eco Starch Resin, BioLogiQ GS270
Product Use	Compounding, extrusion, injection, forming, film blowing
Manufacturer	BioLogiQ Inc. <i>Headquarters</i> 2400 E 25 th St. Idaho Falls, ID 83404 <i>Manufacturing</i> 835 NE Main St. Blackfoot, ID 83221
Emergency Number	1-208-357-9650

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification and Label Elements

Category	Combustible Dust (OSHA Defined)
Label Content	
Pictogram	Not required
Signal word	WARNING
Hazardous warnings	May form combustible dust concentrations in air.
Hazardous prevention measures	Not required

Other Hazards

Physical / Chemical Hazards

Combustible Dust	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
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Health Hazards

Eye	H320: Causes eye irritation. Particles may cause mechanical irritation.
Skin Contact	H316: Causes skin irritation. Only when hot.

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Inhalation	Low order of toxicity.
Ingestion	No hazard in normal industrial use.
Environmental Hazards	No significant hazard
NFPA Hazard ID: Health: 1	Flammability: 0 Reactivity: 0
HMS Hazard ID: Health: 1	Flammability: 0 Reactivity: 0

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
Starch	9005-25-8	-	May form a combustible dust in air
Glycerin	56-81-5	-	Non hazardous

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provision of paragraph (i).

SECTION 4. FIRST-AID MEASURES

Eye Contact	Flush eyes with large amounts of water until irritation stops. Seek medical attention if irritation persists
Skin Contact	Wash with soap and water. For hot product: immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.
Inhalation	Remove to fresh air.
Ingestion	No adverse effects to ingestion are expected.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media	Dry chemical; CO ₂ ; Water fog; Foam
Unsuitable Extinguishing Media	No applicable data available.
Specific Hazards	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not permit dust to accumulate.
Protective Equipment	Self-contained breathing apparatus.
Decomposition products	CO, CO ₂ , C, N, H ₂ O

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Flammability Properties

Flash Point	No data
Flammability Limits	LEL: N/D UEL: N/D
Autoignition Temperature	N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Safeguards	Avoid the generation or accumulation of dust in the air. Good housekeeping practices should be used to avoid dust build up.
Spill Clean	Spilled material is a slipping hazard on hard surfaces. Sweep or scoop up pellets and remove. Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.
Environmental Precautions	Certified to ASTM D6400
Disposal Method	In accordance with existing local/state/federal regulations.

SECTION 7. HANDLING AND STORAGE

Handling	Minimize dust generation and accumulation. Institute routine housecleaning to ensure dust does not accumulate on surfaces. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Avoid significant deposits of material which may become airborne and form combustible dust clouds. Handling and processing operations should be conducted in accordance with best practices (e.g. NFPA-654).
Loading/Unloading Temperature	[Ambient]
Transport Temperature	[Ambient]
Transport Pressure	[Ambient]
Storage	Store in cool dry place with adequate ventilation.
Storage Temperature	[Ambient]
Storage Pressure	[Ambient]
Suitable Containers/Packing	Bulk Containers, Bags. Store sealed to prevent moisture absorption and decomposition.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Exposure Limit Values	No applicable data
Engineering Controls	Adequate ventilation should be provided so that exposure is minimized during processing.
Personal Protection	
Hand Protection	If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, a long sleeve shirt or gauntlet style gloves is recommended.
Eye Protection	If contact with hot material is likely, safety glasses with side shields are recommended.
Skin and Body Protection	If there is a potential for contact with hot product, thermally protective clothing and footwear is recommended.
Respiratory Protection	If engineering controls do not maintain acceptable airborne contaminate levels, an approved respirator may be appropriate. Typical type: Particulate air-purifying respirator approved for dust / oil mist is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

General Information / Appearance

Physical State	Solid
Form	Resin Pellets
Type	Mixture
Color	Translucent, Tan
Odor	Mild cereal odor
Odor Threshold	No data available

Important Health, Safety, and Environmental Information

Relative Density	N/A
pH as is	N/A
pH in 1% Solution	N/A
Boiling Point	N/A
Partition Coefficient	N/A
Specific Gravity	1.4 +/- 0.03 gm/cc
Evaporation Rate	N/A
Vapor Pressure (mm Hg)	N/A
Vapor Density	N/A
Volatiles	None

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Volatile Organic Compounds	N/A
Auto ignition Temperature	N/A
Flammability (solid, gas)	May form combustible dust concentrations in air.
Flash Point	N/D
Upper Explosion Limit	N/D
Lower Explosion Limit	N/D
Decomposition Temperature	N/D
Oxidizing Properties	N/A
Viscosity	N/A
Other Information	
Freezing Point	N/A
Melting Temperature	160°C
Molecular Weight	>10,000
Solubility in Water	Low

SECTION 10. STABILITY AND REACTIVITY

Reactivity	0 = Insignificant (NFPA Hazard Class)
Stability	Material is stable under normal conditions.
Conditions to Avoid	None
Materials to Avoid	None
Hazardous Decomposition Products	This product does not undergo spontaneous decomposition. Typical combustion products are CO, CO ₂ , C, N, H ₂ O

SECTION 11. TOXICOLOGICAL INFORMATION

Product Toxicology

Oral Toxicity	Low order of toxicity
Dermal Toxicity	Non-hazardous
Inhalation Toxicity	Non-hazardous
Eye Irritation	Non-hazardous

Chronic (Long-Term) Effects of Exposure

Route of Entry	Eye, skin, inhalation, ingestion
Effects of chronic exposure	None

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Target Organs	N/A
Special Health Effects	None known
Regulatory Lists Searched	NTP, IARC, OSHA CARC

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability	Compostable as verified by testing to ASTM D6400 and EN13432
Incinerability	Incinerable
Toxic Volatiles	None expected with complete combustion

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Recommendations

Waste Disposal Methods:	In accordance with existing federal/state/local environmental regulations.
Empty Containers:	Empty container may contain product residue; follow SDS and label warnings even after containers have been emptied.

SECTION 14. TRANSPORT INFORMATION

Land (DOT)	Not regulated for Land Transport
Sea (IMDG)	Not regulator for Sea Transport
Air (IATA)	Not regulated for Air Transport

SECTION 15. REGULATORY INFORMATION

CAS Registry Nos.	Components only: 9005-25-8, 56-81-5
U.S. Regulations	
SARA 313 title III	Not Listed
TSCA Inventory List	Not Listed
State Regulations	
Proposition 65 listed material	Not Listed
International Inventories	
California Prop. 65	Not Listed
EU EINECS List	The components of this product listed in Section 3 are listed

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China inventory of Existing Chemical Substances list:	Not Listed
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SECTION 16. OTHER INFORMATION

Created:	28 May 2015	
Revision:	13 Mar 2018	Updated product name and company logo.

N/D = Not determined, N/A = Not applicable

Temperature: Material will soften above ambient temperatures and melt at temperatures above 160°C.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance to safe handling, use, processing storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.