

# SAFETY DATA SHEET



Product Name: NuPlastiQ® CG 2040 BioPolymer  
Product No: NuPlastiQ® CG 2040  
Revision Date: 09 August 2024

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	NuPlastiQ® CG 2040 BioPolymer
<b>Common Names</b>	NuPlastiQ® CG 2040
<b>Product Use</b>	Compounding, extrusion, injection, forming, film blowing
<b>Manufacturer</b>	BiologiQ, Inc. 3834 Professional Way Idaho Falls, ID 83402
<b>Emergency Number</b>	1-208-357-9650

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification and Label Elements

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

**HMIS Hazard ID:** Health: 1      Flammability: 0      Reactivity: 0

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## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
Hydrolyzed Starch	68412-29-3	-	Non-hazardous
Naturally Sourced Plasticizer(s)	-	-	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

<b>Eye Contact</b>	Flush eyes with large amounts of water until irritation stops. Seek medical attention if irritation persists
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	No adverse effects to ingestion are expected.

## SECTION 5. FIREFIGHTING MEASURES

<b>Extinguishing Media</b>	Dry chemical; CO <sub>2</sub> ; Water fog; Foam
<b>Unsuitable Extinguishing Media</b>	No applicable data available.
<b>Specific Hazards</b>	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.
<b>Protective Equipment</b>	Self-contained breathing apparatus.
<b>Decomposition products</b>	CO, CO <sub>2</sub> , C, N, H <sub>2</sub> O
<b>Flammability Properties</b>	
Flash Point	No data
Flammability Limits	LEL: N/D UEL: N/D
Autoignition Temperature	N/A

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Safeguards</b>	Avoid the generation or accumulation of dust in the air. Good housekeeping practices should be used to avoid dust build up.
<b>Spill Clean</b>	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.
<b>Environmental Precautions</b>	Certified to ASTM D6400
<b>Disposal Method</b>	In accordance with existing local/state/federal regulations.

## SECTION 7. HANDLING AND STORAGE

<b>Handling</b>	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]
<b>Storage</b>	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

<b>Exposure Limit Values</b>	No applicable data
<b>Engineering Controls</b>	Adequate ventilation should be provided so that exposure is minimized during processing.
<b>Personal Protection</b>	
Hand Protection	If product is hot, thermally protective, chemical resistant

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Eye Protection	gloves are recommended. If contact with forearms is likely, a long sleeve shirt or gauntlet style gloves is recommended.
Skin and Body Protection	If contact with hot material is likely, safety glasses with side shields are recommended.
Respiratory Protection	If there is a potential for contact with hot product, thermally protective clothing and footwear is recommended.
	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	1.41 +/- 0.03 gm/cc
Evaporation Rate	N/A
Vapor Pressure (mm Hg)	N/A
Vapor Density	N/A
Volatiles	None
Volatile Organic Compounds	N/A
Auto ignition Temperature	N/A
Flammability (solid, gas)	May form combustible dust concentrations in air.
Flash Point	N/D

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Upper Explosion Limit	N/D
Lower Explosion Limit	N/D
Decomposition Temperature	N/D
Oxidizing Properties	N/A
Viscosity	N/A
<b>Other Information</b>	
Freezing Point	N/A
Melting Temperature	160°C
Molecular Weight	>10,000
Solubility in Water	Low

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	0 = Insignificant (NFPA Hazard Class)
<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to Avoid</b>	None
<b>Materials to Avoid</b>	None
<b>Hazardous Decomposition Products</b>	This product does not undergo spontaneous decomposition.  Typical combustion products are CO, CO <sub>2</sub> , C, N, H <sub>2</sub> 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
Target Organs	N/A
Special Health Effects	None known

**Regulatory Lists Searched** NTP, IARC, OSHA CARC

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## SECTION 12. ECOLOGICAL INFORMATION

<b>Biodegradability</b>	Compostable as verified by testing to ASTM D6400 and EN13432
<b>Incinerability</b>	Incinerable
<b>Toxic Volatiles</b>	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

<b>CAS Registry Nos.</b>	68412-29-3, plasticizer(s)
<b>U.S. Regulations</b>	
SARA 313 title III	Not Listed
TSCA Inventory List	Listed
<b>State Regulations</b>	
Proposition 65 listed material	Not Listed
<b>International Inventories</b>	
California Prop. 65	Not Listed
EU EINECS List	The components of this product listed in Section 3 are listed.
China inventory of Existing Chemical Substances list:	Listed

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## SECTION 16. OTHER INFORMATION

Created: 20 November 2023

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

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

This SDS covers the following NuPlastiQ® CG BioPolymers: NuPlastiQ® CG 2040.

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.