

SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: NuPlastiQ® BC 27250 BioPolymer
Product No: NuPlastiQ® BC 27250
Revision Date: 6 June 2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	NuPlastiQ® BC 27250 BioPolymer
Common Names	NuPlastiQ® BC 27250
Product Use	Plastic pellets for industrial use – to create film.
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.
Inhalation	Low order of toxicity.
Ingestion	No hazard in normal industrial use.

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Environmental Hazards	No significant hazard		
NFPA Hazard ID: Health: 1	Flammability: 0	Reactivity: 0	
HMIS Hazard ID: Health: 1	Flammability: 0	Reactivity: 0	

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer	-	-	May form a combustible dust in air
Biodegradable Polyester	55231-08-8	-	Non hazardous
Poly lactide Resin	9051-89-2	-	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. If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.
Ingestion	No adverse effects to ingestion are expected.
Hazards	No hazard is expected under intended use and appropriate handling.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media	Dry chemical; CO2; 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

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	ignition source is a potential dust explosion hazard. Do not permit dust to accumulate.
Protective Equipment	Self-contained breathing apparatus.
Decomposition products	Decomposition products will depend on fire conditions. CO, CO ₂ , tetrahydrofuran, fumes/smoke, carbon black, harmful vapors, and other hydrocarbons are possible.
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	Do not discharge to streams, ponds, lakes or sewers.
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. Processing equipment must be fitted with local exhaust ventilation. 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). Wash thoroughly after handling.
Loading/Unloading Temperature	[Ambient]
Transport Temperature	[Ambient]

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Transport Pressure	[Ambient]
Storage	Store in cool dry place with adequate ventilation.
Conditions	Protect against moisture. Avoid extreme heat and sources of ignition: heat, sparks, open flame.
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

Exposure limit values for materials that can be formed when handling this product

For dusty conditions, OSHA recommends for particulates not otherwise regulated an 8-hour TWA of 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction); ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m³ (inhalable particles), 3 mg/m³ (respirable particles).
NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Under recommended processing conditions, this material has been shown to emit elevated concentrations of glycerol mist (CAS 56-81-5). This may cause smoke and possible odor during processing. OSHA does not list Glycerol mist as a hazardous material with specific exposure limits.

Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Processors of this product should assure that adequate ventilation or other controls are used to control exposure.

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

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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, off-white to 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
Volatile Organic Compounds	N/A
Auto ignition Temperature	N/A
Flammability (solid, gas)	Not flammable, but 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	Approx. 160°C

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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	Avoid extreme heat
Materials to Avoid	Strong oxidizing agents
Hazardous Decomposition Products	This product does not undergo spontaneous decomposition at ambient temperatures. At prolonged and/or strong thermal stressing above the decomposition temperature, hazardous decomposition products such as aldehydes, carbon monoxide, and carbon dioxide may be formed.

SECTION 11. TOXICOLOGICAL INFORMATION

Product Toxicology	
Oral Toxicity	Low order of toxicity. LD50 rat (oral): > 4,000 mg/kg (OECD Guide 423)
Dermal Toxicity	No specific data available.
Inhalation Toxicity	No specific data available.
Eye Irritation	No specific data available.
Chronic (Long-Term) Effects of Exposure	
Route of Entry	Eye, skin, inhalation, ingestion
Effects of chronic exposure	No specific data available.
Target Organs	N/D
Special Health Effects	None known
Other information	
Dust	May be irritating to the eyes and respiratory tract.

SECTION 12. ECOLOGICAL INFORMATION

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Toxicity	No specific data available.
Persistence and degradability	No specific data available.
Bioaccumulative potential	No specific data available.
Mobility in soil	No specific data available.
Results of PBT and vPvB assessment	No specific data available.
Additional Information	At the present state of knowledge, no negative ecological effects are expected.

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 regulated for Sea Transport
Air (IATA)	Not regulated for Air Transport

SECTION 15. REGULATORY INFORMATION

CAS Registry Nos. Listed components only: 55231-08-8, 9051-89-2

U.S. Regulations

SARA 313 title III	Not listed
TSCA Inventory List	Listed

State Regulations

Proposition 65 listed material	Not listed
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International Inventories

Canada DSL Inventory List	Listed
EU EINECS List	Not Listed
China inventory of Existing Chemical Substances list:	Listed

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China Catalog of Hazardous Chemicals (2015)	Not listed
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SECTION 16. OTHER INFORMATION

Created: 6 June 2018

Key to The H-Codes Contained In Section 2 and 3 Of This Document (for information only):

H316: Causes skin irritation. Only when hot.

H320: Causes eye irritation. Particles may cause mechanical irritation.

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

This SDS covers the following NuPlastiQ® BC BioPolymers: NuPlastiQ® BC 27250, NuPlastiQ® BC 27251, NuPlastiQ® BC 27240 and NuPlastiQ® BC 27241..

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.