

# SAFETY DATA SHEET

Product Name: BioBlend® XP 22250 BioPolymer  
Product No: BioBlend® XP 22250  
Date: 25 February 2019



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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	BioBlend® XP 22250 BioPolymer
<b>Common Names</b>	BioBlend® XP 22250
<b>Product Use</b>	BioPolymer resin for blowing film
<b>Manufacturer</b>	BiologiQ Inc. 835 NE Main St. Blackfoot, ID 83221
<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

<b>NFPA Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0
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<b>HMIS Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0
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## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer		-	N/A
LDPE Adhesive Resin	9002-88-4	-	N/A
Ethylene-butene copolymer	25087-34-7	-	N/A
Additives		< 0.5%	N/A

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 individual to fresh air.
<b>Ingestion</b>	Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

## 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>Potentially Hazardous Combustion Products</b>	Flammable hydrocarbons, aldehydes, ketones, incomplete combustion products, oxides of carbon, smoke, fumes
<b>Flammability Properties</b>	
Flash Point	No data

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Flammability Limits	LEL: N/D	UEL: N/D
Auto-ignition Temperature	N/A	

## 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>	Do not discharge to streams, ponds, lakes, or sewers.
<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 this product may result in electrostatic accumulation. Use proper grounding procedures. 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.
Incompatible Materials	Strong oxidizing agents.

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## 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/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction); ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m<sup>3</sup> (inhalable particles), 3 mg/m<sup>3</sup> (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 are 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	Opaque, off-white to tan

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Odor	N/D
Odor Threshold	N/D
<b>Important Health, Safety, and Environmental Information</b>	
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	N/D
Evaporation Rate	N/A
Vapor Pressure (mm Hg)	N/A
Vapor Density	N/A
Volatiles	N/A
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
<b>Other Information</b>	
Freezing Point	N/A
Melting Temperature	N/A
Molecular Weight	>10,000
Solubility in Water	Low

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	0 = Insignificant
<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to Avoid</b>	Avoid elevated temperatures for prolonged periods of time.
<b>Materials to Avoid</b>	Strong acids and oxidizing agents

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**Hazardous Decomposition Products** This product does not undergo spontaneous decomposition.

Hazardous decomposition products may include but are not limited to: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Organic acids, Aldehydes, Alcohols, Acrolein, Formaldehyde, Acetaldehydes

## SECTION 11. TOXICOLOGICAL INFORMATION

### Product Toxicology

Oral Toxicity	Low order of toxicity
Dermal Toxicity	Non-hazardous
Inhalation Toxicity	Non-hazardous
Eye Irritation	Mechanical irritation is possible.

### 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

### Other Information

Dust	May be irritating to the eyes and respiratory tract.
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<b>Regulatory Lists Searched</b>	NTP, IARC, OSHA CARC
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## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	N/D
<b>Biodegradability</b>	N/D
<b>Bioaccumulative potential</b>	N/D
<b>Mobility in soil</b>	N/D

## 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.

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## 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

### U.S. Regulations

SARA (311/312)  
Reportable GHS Hazard Classes: Combustible Dust

SARA 313 title III  
This material contains no chemicals with known CAS numbers that exceed the threshold levels required for reporting.

TSCA Inventory List  
The components listed in section 3 are in compliance with TSCA Inventory requirements for commercial purposes

### State Regulations

California Prop. 65  
This product contains no known listed substances.

### International Inventories

Canada DSL Inventory List  
The components with known CAS numbers in Section 3 are listed.

China inventory of Existing Chemical Substances list:  
The components with known CAS numbers in Section 3 are listed.

## SECTION 16. OTHER INFORMATION

Modified: 25 February 2019 Updated naming from NuPlastiQ® XP to BioBlend® XP.  
Created: 6 November 2018

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

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

H316: Causes skin irritation - only when hot.

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

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This SDS covers the following BioBlend® XP BioPolymers: BioBlend® XP 22250 and BioBlend® XP 22251.

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.