

# SAFETY DATA SHEET

Product Name: BioBlend® XP 22250 BioPolymer  
Product No: BioBlend® XP 22250  
Date: 30 November 2020



Smart Solutions For A Sustainable World

## 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. 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

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

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	N/D
Biodegradability	N/D
Bioaccumulative potential	N/D
Mobility in soil	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: 30 November 2020 Updated company address.  
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.

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

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.



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Product Name: BioBlend® BioPolymers: XP 24250 and XP 24251  
Product No: BioBlend® XP 24250 and XP 24251  
Revision Date: 26 March 2019

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	BioBlend® BioPolymers: XP 24250 and XP 24251
<b>Common Names</b>	BioBlend XP
<b>Product Use</b>	Resin for blowing film
<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

<b>NFPA Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0
<b>HMIS Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0

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Product Name: BioBlend® BioPolymers: XP 24250 and XP 24251  
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## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer		-	N/A
Adhesive Resin	9002-88-4	-	N/A
LLDPE	9002-88-4	-	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 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>Decomposition products</b>	Flammable hydrocarbons, Hydrogen fluoride, Incomplete combustion products, Oxides of carbon, Smoke, Fume
<b>Flammability Properties</b>	

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

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Product Name: BioBlend® BioPolymers: XP 24250 and XP 24251  
Product No: BioBlend® XP 24250 and XP 24251  
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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). May contain cristobalite, a form of crystalline silica, as an additive that is encapsulated in the polymer. Inhaled crystalline silica in an occupational environment is recognized as a known human carcinogen. However, the potential for release of silica to the air when this polymer is handled has been assessed and the encapsulated silica within the polymer is not expected to pose a health hazard when processed under normal conditions of use. 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

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

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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	Opaque, off-white to tan
Odor	N/D
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	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

### Other Information

Freezing Point	N/A
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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 oxidizers
<b>Hazardous Decomposition Products</b>	This product does not undergo spontaneous decomposition.  Typical combustion products may include CO, CO <sub>2</sub> , C, N, H <sub>2</sub> O

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Product Toxicology</b>	
Oral Toxicity	Low order of toxicity
Dermal Toxicity	Non-hazardous
Inhalation Toxicity	Non-hazardous
Eye Irritation	Non-hazardous
<b>Chronic (Long-Term) Effects of Exposure</b>	
Route of Entry	Eye, skin, inhalation, ingestion
Effects of chronic exposure	None
Target Organs	N/A
Special Health Effects	None known
<b>Other Information</b>	
Dust	May be irritating to the eyes and respiratory tract.
Additives	Contains additives that are encapsulated in the polymer. Under normal processing conditions, the additives are not expected to pose any health hazard. However, grinding of the polymer is not recommended without the use of appropriate measures to control exposure.

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Regulatory Lists Searched	NTP, IARC, OSHA CARC
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## SECTION 12. ECOLOGICAL INFORMATION

Biodegradability	N/D
Incinerability	Incinerable
Toxic Volatiles	None expected with complete combustion

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal Recommendations</b>	
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>U.S. Regulations</b>	
Osha Hazard Communication Standard:	This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.
SARA 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
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.
CWA / OPA:	Plastic pellets are defined by the US EPA under the Clean Water Act (40CFR122.26) as a "significant material" which requires any industrial plant that may expose pellets to storm water to secure a storm water

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permit. Violations of the rule carry the same penalties as other Clean Water Act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties.

### The following ingredients are cited on the lists below

Chemical Name	CAS Number	List Citations
1-PROPENE, 1,1,2,3,3,3-HEXAFLUORO POLYMER WITH 1,1-DIFLUOROETHENE	9011-17-0	2
SILICA, QUARTZ	14808-60-7	3
TALC	14807-96-6	5

### Regulatory Lists Searched

1 = OSHA Z	3 = CA P65	5 = NJ RTK
2 = TSCA	4 = CA RTK	

## SECTION 16. OTHER INFORMATION

Created:	18 Dec 2015	Initial version
Revision:	09 Apr 2018	Updated compound name. Updated Section 3, material list. Updated Section 8, Exposure limit values for dusty conditions. Updated Section 10 Conditions to avoid. Updated Section 10 Materials to avoid. Updated Section 15 OSHA communications standard.
Revision:	09 July 2018	Fixed an error for the CAS number for Trisnonyl Phenyl Phosphite.
Revision:	08 Nov 2018	Updated Section 8. Under recommended processing conditions this material may emit glycerol mist.
Revision:	15 Aug 2019	Updated naming from NuPlastiQ® XP to BioBlend® XP.
Revision:	06 Jan 2021	Updated company address.

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

**Key to the H-Codes contained in Section 3 of this document (for information only)**



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H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

H400: Very toxic to aquatic life: Acute Env Tox, Cat 1

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

This SDS covers the following BioBlend® XP BioPolymers: BioBlend® XP 24250 and BioBlend XP 24251.

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.

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	BioBlend® XP 24850 BioPolymer
<b>Common Names</b>	BioBlend® XP 24850
<b>Product Use</b>	BioPolymer Resin for blowing film, extrusion, or other conversion processes
<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 mild 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: 0 Flammability: 1 Reactivity: 0

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

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Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer		-	N/A
Adhesive Resin		-	N/A
Ethylene-1-octene copolymer	26221-73-8	-	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 to fresh air. If symptoms continue, get medical attention.
<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>Decomposition products</b>	Flammable hydrocarbons, incomplete combustion products, oxides of carbon, smoke, and fumes
<b>Flammability Properties</b>	
Flash Point	No data

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



Flammability Limits	LEL: N/D	UEL: N/D
Autoignition 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 and processing operations should be conducted in accordance with best practices (e.g. NFPA-654).  Electrostatic charge may build up during handling. Equipment should be grounded and bonded.
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.

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



## 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 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, such as adequate ventilation and/or enclosures 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

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



Color	Opaque, off-white to tan
Odor	N/D
Odor Threshold	No data available
<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 Oxidizers

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



<b>Hazardous Decomposition Products</b>	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
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## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Product Toxicology</b>	
Oral Toxicity	Low order of toxicity  Single dose oral LD50 has not been determined.
Dermal Toxicity	Typical for this family of materials. LD50, Rat, > 5,000 mg/kg Estimated.  No adverse effects anticipated by skin absorption.  The dermal LD50 has not been determined.
Inhalation Toxicity	Typical for this family of materials. LD50, Rabbit, > 2,000 mg/kg Estimated.  No adverse effects are anticipated from single exposure to dust. The LC50 has not been determined.
Eye Irritation	Mechanical irritation is possible.
<b>Chronic (Long-Term) Effects of Exposure</b>	
Route of Entry	Eye, skin, inhalation, ingestion
Effects of chronic exposure	None
Target Organs	N/A
Special Health Effects	None known
<b>Other Information</b>	
Dust	May be irritating to the eyes and respiratory tract.
<b>Regulatory Lists Searched</b>	NTP, IARC, OSHA CARC

## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	N/D
<b>Biodegradability</b>	N/D

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



Bioaccumulative potential	N/D
Mobility in soil	N/D

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal Recommendations</b>	
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>U.S. Regulations</b>	
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.
<b>State Regulations</b>	
California Prop. 65	This product contains no known listed substances.
<b>International Inventories</b>	
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

Created:	16 May 2018	Initial version
Modified:	25 Feb 2019	Updated naming from NuPlastiQ® XP to BioBlend® XP.



# SAFETY DATA SHEET

Product Name: BioBlend® XP 24850 BioPolymer  
Product No: BioBlend® XP 24850  
Revision Date: 06 Jan 2021



Modified: 06 Jan 2021 Updated company address

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

### Key to the H-Codes contained in Section 3 of this document (for information only)

H316: Causes mild skin irritation. Only when hot.

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

This SDS covers the following BioBlend® XP BioPolymers: BioBlend® XP 24850 and BioBlend XP 24851.

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.

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	BioBlend® XP 24875 BioPolymer
<b>Common Names</b>	BioBlend® XP 24875
<b>Product Use</b>	BioPolymer Resin for blowing film, extrusion, or other conversion processes
<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 mild 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: 0	Flammability: 1	Reactivity: 0
<b>HMIS Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer		-	N/A
Adhesive Resin	9002-88-4	-	N/A
Proprietary Blend of Polyethylene Polymers	Various	-	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 to fresh air. If symptoms continue, get medical attention.
<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>Decomposition products</b>	Flammable hydrocarbons, incomplete combustion products, oxides of carbon, aldehydes, ketones, smoke, and fumes
<b>Flammability Properties</b>	

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



Flash Point	No data
Flammability Limits	LEL: N/D UEL: N/D
Autoignition 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 and processing operations should be conducted in accordance with best practices (e.g. NFPA-654).  Electrostatic charge may build up during handling. Equipment should be grounded and bonded.
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.

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



## 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 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, such as adequate ventilation and/or enclosures 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

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



Type	Mixture
Color	Opaque, off-white to tan
Odor	N/D
Odor Threshold	No data available
<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.

# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



<b>Materials to Avoid</b>	Strong Oxidizers
<b>Hazardous Decomposition Products</b>	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

<b>Product Toxicology</b>	
Oral Toxicity	Low order of toxicity  Single dose oral LD50 has not been determined.
Dermal Toxicity	Typical for this family of materials. LD50, Rat, > 5,000 mg/kg Estimated. No adverse effects anticipated by skin absorption.  The dermal LD50 has not been determined.
Inhalation Toxicity	Typical for this family of materials. LD50, Rabbit, > 2,000 mg/kg Estimated. No adverse effects are anticipated from single exposure to dust. The LC50 has not been determined.
Eye Irritation	Mechanical irritation is possible.
<b>Chronic (Long-Term) Effects of Exposure</b>	
Route of Entry	Eye, skin, inhalation, ingestion
Effects of chronic exposure	None
Target Organs	N/A
Special Health Effects	None known
<b>Other Information</b>	
Dust	May be irritating to the eyes and respiratory tract.
<b>Regulatory Lists Searched</b>	NTP, IARC, OSHA CARC

## SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	N/D
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# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



Biodegradability	N/D
Bioaccumulative potential	N/D
Mobility in soil	N/D

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal Recommendations</b>	
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>U.S. Regulations</b>	
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.
<b>State Regulations</b>	
California Prop. 65	This product contains no known listed substances.
New Jersey	This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act: 557-05-01 Zinc Stearate
Massachusetts	This product contains the following chemicals regulated by Massachusetts' Right to Know Law: 557-05-01 Zinc Stearate
Pennsylvania	This product contains the following chemicals regulated by Pennsylvania's Right to Know Act: 557-05-01 Zinc Stearate



# SAFETY DATA SHEET

Product Name: BioBlend® XP 24875 BioPolymer  
Product No: BioBlend® XP 24875  
Revision Date: 8 January 2021



## 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

Created: 21 March 2019 Original  
Revisions: 08 Jan 2021 Updated company address

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

### Key to the H-Codes contained in Section 3 of this document (for information only)

- H316: Causes mild skin irritation. Only when hot.
- H320: Causes eye irritation. Particles may cause mechanical irritation.

This SDS covers the following BioBlend® XP BioPolymers: BioBlend® XP 24875.

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.

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	BioBlend XD 25250 BioPolymer
<b>Common Names</b>	BioBlend XD25250, XD25251
<b>Product Use</b>	Plastic resin for rigid products such as injection molding, thermoforming, sheet extrusion, etc.
<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

<b>NFPA Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0
<b>HMIS Hazard ID</b>	Health: 1	Flammability: 1	Reactivity: 0

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer	-	-	N/A
Adhesive Resin	-	-	N/A
Polypropylene	9010-79-1	-	N/A
Additives	Trade secret	<1%	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 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; Water fog
<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>	Hazardous decomposition products such as carbon oxides (CO, CO <sub>2</sub> ), aldehydes, ketones, hydrocarbons and organic vapors are possible.
<b>Flammability Properties</b>	
Flash Point	No data

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

Flammability Limits	LEL: N/D	UEL: N/D
Autoignition 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, scoop or vacuum 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 and processing operations should be conducted in accordance with best practices (e.g. NFPA-654). Ensure good ventilation of the work station. Wear protective equipment. Do not overheat the product. Avoid contact with heated product to avoid burns.
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.

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

## 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.

Provide readily accessible eye wash stations and safety showers.

### 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	Opaque, off-white to tan

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

Odor	N/D
Odor Threshold	No data available
<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>	No applicable data available.
<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to Avoid</b>	Temperatures > 300°C (>572°F)
<b>Materials to Avoid</b>	Strong Oxidizers

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

**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	Not classified
Dermal Toxicity	Not classified
Inhalation Toxicity	Not classified
Eye Irritation	Not classified

### 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

Carcinogenicity	Not classified
Dust	May be irritating to the eyes and respiratory tract.
Additives	Contains additives that are encapsulated in the polymer. Under normal processing conditions, the additives are not expected to pose any health hazard. However, grinding of the polymer is not recommended without the use of appropriate measures to control exposure.

## SECTION 12. ECOLOGICAL INFORMATION

Biodegradability	N/D
Incinerability	Incinerable
Toxic Volatiles	None expected with complete combustion

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal Recommendations**

# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer  
Product No: BioBlend® XD 25250, XD25251  
Revision Date: 8 January 2021

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

### U.S. Regulations

SARA 313 title III	ND
SARA 311/312 Hazard Class	Combustible Dust
TSCA Inventory List	ND

### US State Regulations

No additional information available.

### International Inventories

Canada DSL Inventory List	ND
China inventory of Existing Chemical Substances list:	ND

Created:	30 Jan 2019	Original
Modified:	25 Feb 2019	Updated naming from NuPlastiQ® XD to BioBlend® XD.
Revision:	08 Jan 2021	Updated company address.

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

### Key to the H-Codes contained in Section 3 of this document (for information only)

- H316: Causes mild skin irritation. Only when hot.
- H320: Causes eye irritation. Particles may cause mechanical irritation.



# SAFETY DATA SHEET



Product Name: BioBlend® XD 25250 BioPolymer

Product No: BioBlend® XD 25250, XD25251

Revision Date: 8 January 2021

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This SDS covers the following BioBlend® XD BioPolymers: BioBlend® XD 25250 and BioBlend XD 25251.

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.

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Names</b>	BioBlend® BC 27134 BioPolymer, BioBlend® BC 27154 BioPolymer
<b>Common Names</b>	BC 27134, BC 27154
<b>Product Use</b>	Plastic pellets for industrial use – to create film.
<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

<b>NFPA Hazard ID:</b> Health: 1	Flammability: 0	Reactivity: 0
<b>HMIS Hazard ID:</b> Health: 1	Flammability: 0	Reactivity: 0

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

## 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

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. If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.
<b>Ingestion</b>	No adverse effects to ingestion are expected.
<b>Hazards</b>	No hazard is expected under intended use and appropriate handling.

## 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>	Decomposition products will depend on fire conditions. CO, CO <sub>2</sub> , tetrahydrofuran, fumes/smoke, carbon black, harmful vapors, and other hydrocarbons are possible.

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

## Flammability Properties

Flash Point	No data
Flammability Limits	LEL: N/D      UEL: N/D
Autoignition 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. 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]
Transport Pressure	[Ambient]
<b>Storage</b>	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]

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

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 for materials that can be formed when handling this product</b>	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.
<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	
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

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

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
Molecular Weight	>10,000
Solubility in Water	Low

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity** 0 = Insignificant (NFPA Hazard Class)

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

<b>Stability</b>	Material is stable under normal conditions.
<b>Conditions to Avoid</b>	Avoid extreme heat
<b>Materials to Avoid</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	This product does not undergo spontaneous decomposition at ambient temperatures.  At prolonged and/or strong thermal stressing above the decomposition temperature, hazardous decomposition products 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.
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## SECTION 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	No specific data available.
<b>Persistence and degradability</b>	No specific data available.
<b>Bioaccumulative potential</b>	No specific data available.
<b>Mobility in soil</b>	No specific data available
<b>Results of PBT and vPvB assessment</b>	No specific data available

# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

<b>Additional Information</b>	At the present state of knowledge, no negative ecological effects are expected.
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## 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

<b>CAS Registry Nos.</b>	Listed components only: 55231-08-8
<b>U.S. Regulations</b>	
SARA 313 title III	Not listed
TSCA Inventory List	Not listed
<b>State Regulations</b>	
Proposition 65 listed material	Not listed
<b>International Inventories</b>	
Canada DSL Inventory List	Not listed.
EU EINECS List	The components of this product listed in Section 3 are listed
China inventory of Existing Chemical Substances list:	The components of this product listed in Section 3 are listed.
China Catalog of Hazardous Chemicals (2015)	Not listed

## SECTION 16. OTHER INFORMATION

Created:	25 May 2021	Original
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# SAFETY DATA SHEET



Smart Solutions For A Sustainable World

Product Name: BioBlend® BC 27134 BioPolymer  
Product No: BioBlend® BC 27134  
Revision Date: 17 November 2021

Revision: 17 November 2021 Updated Product Number and formatting.

**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 a range of BioBlend® BC BioPolymer Mulch Resins manufactured by BiologiQ, Inc. These include resins with the following designations: BC27134, BC27154

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.