

# SAFETY DATA SHEET



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. <i>Headquarters</i>  2400 E 25 <sup>th</sup> St. Idaho Falls, ID 83404  <i>Manufacturing</i>  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.

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Inhalation	Low order of toxicity.
Ingestion	No hazard in normal industrial use.
<b>Environmental Hazards</b>	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

## 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

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<b>Protective Equipment</b>	ignition source is a potential dust explosion hazard. Do not permit dust to accumulate.
<b>Decomposition products</b>	Self-contained breathing apparatus.
<b>Flammability Properties</b>	Flammable hydrocarbons, Hydrogen fluoride, Incomplete combustion products, Oxides of carbon, Smoke, Fume
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]

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Transport Pressure	[Ambient]
<b>Storage</b>	Store in cool dry place with adequate ventilation.
Storage Temperature	[Ambient]
Storage Pressure	[Ambient]
Suitable Containers/Packing	Bulk Containers, Bags. Store sealed to prevent moisture absorption and decomposition.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**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.

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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
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

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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
<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

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## Other Information

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.

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

## SECTION 12. ECOLOGICAL INFORMATION

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

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Recommendations

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

## SECTION 14. TRANSPORT INFORMATION

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

## SECTION 15. REGULATORY INFORMATION

### U.S. Regulations

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

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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 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**

Modified:	25 February 2019	Updated naming from NuPlastiQ® BC to BioBlend® BC.
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.



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Revision: 15 Aug 2019 Updated naming from NuPlastiQ® XP to BioBlend® XP.

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

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

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.