

# SAFETY DATA SHEET



Product Name: BioBlend® XD 26152 BioPolymer  
Product No: BioBlend® XD 26152  
Revision Date: 2 December 2021

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	BioBlend® XD 26152 BioPolymer
<b>Common Names</b>	BioBlend® XD
<b>Product Use</b>	Resin for extrusion
<b>Manufacturer</b>	<i>Headquarters</i> BiologiQ HK Room 401B, Energy Plaza, 92 Granville Road, Tsim Sha Tsui East, Kowloon, Hong Kong  <i>Manufacturing</i> Block F, Phase 2, Early Light Int. Group, No. 26 Muxi Ave., Xilian Town, Wujiang Dist., Shaoguan City, Guangdong Province, China
<b>Emergency Number</b>	86-751-8828888 ext 2545

## 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

Health Hazard Composition: Health Hazard Composition : This product is not expected to be a hazard. However, the residual monomer styrene in IARC list is a 2B-class specification: probably carcinogenic.

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

Skin Contact H316: May cause skin irritation when hot.

Inhalation Low order of toxicity.

Ingestion No hazard in normal industrial use.

## Environmental Hazards

No significant hazard

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

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

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	Concentration	GHS Hazard Codes
NuPlastiQ® GP BioPolymer		-	N/A
Styrene, 1,3-butadiene copolymer	9003-55-8	-	N/A
Additives		< 1.5%	N/A
Residual styrene monomer	00100-42-5	< 0.03%	N/A
Adhesive Resin		< 15%	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

**Eye Contact** Flush eyes with large amounts of water until irritation stops. Seek medical attention if irritation persists.

**Skin Contact** Wash with soap and water.

For hot product: immediately immerse in or flush affected area with large amounts of cold water to dissipate heat.

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<b>Inhalation</b>	Cover with clean cotton sheeting or gauze and get prompt medical attention.
<b>Ingestion</b>	Remove to fresh air. 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, water vapor, carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), aldehydes, ketones, styrene, toluene, alcohols, smoke, and other toxic fumes are possible.
<b>Flammability Properties</b>	
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

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<b>Handling</b>	<p>Minimize dust generation and accumulation. Institute routine housecleaning to ensure dust does not accumulate on surfaces.</p> <p>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).</p>
Loading/Unloading Temperature	[Ambient]
Transport Temperature	[Ambient]
Transport Pressure	[Ambient]
<b>Storage</b>	<p>Store in cool dry place with adequate ventilation. Do not store near heating source.</p>
Storage Temperature	[Ambient]
Storage Pressure	[Ambient]
Suitable Containers/Packing	Bulk Containers, Bags. Store sealed to prevent moisture absorption and decomposition.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limit Values for materials that can be formed when handling this product</b>	<p>When hot processing this material, use local and/or general exhaust ventilation to maintain the concentration of vapors and fumes below exposure limits. Local exhaust ventilation is preferred. Use static controls. Static charges can cause explosions in solvent and dust laden atmospheres. Follow processing recommendations on the product data sheet.</p> <p>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).</p> <p>NOTE: Limits/standards shown for guidance only. Follow applicable regulations.</p> <p>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</p>
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	Glycerol mist as a hazardous material with specific exposure limits.
<b>Engineering Controls</b>	<p>The level of protection and types of controls necessary will vary depending upon potential exposure conditions.</p> <p>Processors of this product should insure that adequate ventilation is provided to control and minimize exposure. Dust control equipment, exhaust ventilation, and material transport systems involved in handling of this product should be designed and maintained to minimize dust generation and accumulation.</p>
<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

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

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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
<b>Hazardous Decomposition Products</b>	This product does not undergo spontaneous decomposition.  Exposure to high temperatures may cause decomposition. Possible decomposition products include: Carbon monoxide, Organic acids, Aldehydes, Alcohols, Acrolein, zinc oxides, Acetic acid, Maleic anhydride, Formaldehyde, acetaldehydes , Vinyl acetate

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Product Toxicology

Oral Toxicity	Single dose oral LD50 has not been determined.
Dermal Toxicity	N/D
Inhalation Toxicity	N/D
Eye Irritation	Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

### Chronic (Long-Term) Effects of Exposure

Route of Entry	Eye, skin, inhalation, ingestion
Effects of chronic exposure	N/D
Target Organs	N/D
Special Health Effects	N/D

### Other Information

Dust	May be irritating to the eyes and respiratory tract.
Additives	Additives are encapsulated in the product and are not expected to be released under normal processing conditions of foreseeable emergency.

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

Data for Component: Styrene, 1,3-butadiene copolymer (9003-55-8) Not expected to be acutely toxic.

**Persistence and Biodegradability** N/D

**Bioaccumulative Potential** N/D

**Mobility In Soil** N/D

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Recommendations

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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

TSCA	In compliance with TSCA Inventory requirements for commercial purposes.
SARA (311/312) Reportable GHS Hazard Classes:	Combustible Dust
SARA 313 Regulated Chemical(s)	Vinyl Acetate
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
Styrene, 1,3-butadiene copolymer	9003-55-8	2, 5, 6, 7
Styrene** <= 300 PPM	100-42-5	1, 2, 3, 4, 5, 6, 7, 8
Vinyl Acetate	108-05-4	2, 4, 5, 6, 7, 8, 9



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Regulatory Lists Searched		
1 = OSHA Z	2 = TSCA	3 = CA P65
4 = CA RTK	5 = Canadian DSL	6 = Japanese ENCS
7 = IECSC	8 = PA Right to Know Act and/or Hazardous Substance List	9 = NJ Hazardous Substance List

\*In April 2016, the Office of Environmental Health Hazard Assessment's (OEHHA) Proposition 65 Department proposed an NSRL of 27 µg/day for styrene.

## SECTION 16. OTHER INFORMATION

Created: 2 Dec 2021 Original.

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

### Key to the H-Codes contained in Section 2 or 3 of this document (for information only)

H316: Causes mild skin irritation

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

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.