

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

Product NameBioBlend[®] BioPolymers: XP 24250 and XP 24251

Common Names BioBlend XP

Product Use Resin for blowing film

Manufacturer BiologiQ Inc.

3834 Professional Way Idaho Falls, ID 83402

Emergency Number 1-208-357-9650

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification and Label Elements

Category Combustible Dust (OSHA Defined)

Label Content

Pictogram Not required Signal word WARNING

Hazardous warnings May form combustible dust concentrations in air.

Hazardous prevention

measures

Not required

Other Hazards

Physical / Chemical Hazards

Combustible Dust If small particles are generated during further

processing, handling or by other means, may form

combustible dust concentrations in air.

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

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

HMIS Hazard ID 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 Adhesive Resin 9002-88-4 N/A LIDPE N/A 9002-88-4

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provision of paragraph (i).

SECTION 4. FIRST-AID MEASURES

Eye Contact Flush eyes with large amounts of water until irritation

stops. Seek medical attention if irritation persists.

Skin Contact Wash with soap and water.

> For hot product: immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt

medical attention.

Inhalation Remove to fresh air.

Ingestion Not a probable route of exposure. However, in case of

accidental ingestion, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media Dry chemical; CO₂; Water fog; Foam

Unsuitable Extinguishing Media No applicable data available.

Specific Hazards Avoid generating dust: fine dust dispersed in air in

sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do

not permit dust to accumulate.

Protective Equipment Self-contained breathing apparatus.

Decomposition products Flammable hydrocarbons, Hydrogen fluoride, Incomplete

combustion products, Oxides of carbon, Smoke, Fume

Flammability Properties



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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

Safeguards Avoid the generation or accumulation of dust in the air.

Good housekeeping practices should be used to avoid

dust build up.

Spill Clean Spilled material is a slipping hazard on hard surfaces.

Sweep or scoop up pellets and remove.

Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

Environmental Precautions

Do not discharge to streams, ponds, lakes or sewers.

Disposal Method

In accordance with existing local/state/federal

regulations.

SECTION 7. HANDLING AND STORAGE

Handling Minimize dust generation and accumulation. Institute

routine housecleaning to ensure dust does not

accumulate on surfaces.

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]

Storage 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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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

that can be formed when handling this product

Exposure Limit Values for materials For dusty conditions, OSHA recommends for particulates not otherwise regulated an 8-hour TWA of 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction); ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m3 (inhalable particles), 3 mg/m3 (respirable particles). 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.

If contact with hot material is likely, safety glasses with Eye Protection

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 N/A pH in 1% Solution **Boiling Point** N/A **Partition Coefficient** N/A N/D Specific Gravity **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

Reactivity 0 = Insignificant

Stability Material is stable under normal conditions.

Avoid elevated temperatures for prolonged periods of Conditions to Avoid

time

Materials to Avoid Strong oxidizers

Hazardous Decomposition Products This product does not undergo spontaneous

decomposition.

Typical combustion products may include CO, CO₂, C, N,

 H_20

SECTION 11. TOXICOLOGICAL INFORMATION

Product Toxicology

Oral Toxicity Low order of toxicity Non-hazardous **Dermal Toxicity** Non-hazardous **Inhalation Toxicity** Non-hazardous Eye Irritation

Chronic (Long-Term) Effects of Exposure

Route of Entry Eye, skin, inhalation, ingestion

Effects of chronic exposure None N/A **Target Organs**

Special Health Effects None known

Other Information

May be irritating to the eyes and respiratory tract. Dust

Contains additives that are encapsulated in the polymer. Additives

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

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability N/D

Incinerability Incinerable

Toxic VolatilesNone 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 This material is considered hazardous in accordance with

Standard: 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
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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	INFORM	ATION

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.