

**SAFETY DATA SHEET****SECTION 1. PRODUCT AND COMPANY INFORMATION**

Product Name: BioXpresS-PA101
Product Description: Proprietary Blend
Company: Polymer Processing Tech, LLC
PO Box 3117
Galveston, TX 77552
USA
Polymer Processing Tech, LLC
811 14th St.
Galveston, TX 77550
USA
Telephone No.: 409-770-9809
Emergency Phone No.: 1-800-424-9300 (CHEMTREC-USA) (24 hours)

Last Issue Date: January 2018 Current Issue Date: January 2018

SECTION 2. HAZARDS IDENTIFICATION INFORMATION**Emergency Overview**

Form: Solid pellet
Color: Off white/white
Odor: waxy mild acrylic ester odor

Classification of the substance or mixture (GHS-US)

Classification of the substance or mixture: The components are classified as not hazardous.

GHS-US Label elements, including precautionary statements

Signal word (GHS-US): **Warning**
Hazard statements (GHS-US): **May form combustible dust concentration in air**
Precautionary statements (GHS-US): **Prevention:**
Use personal protective equipment as required.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Chemical Name: Proprietary Blend

SECTION 4. FIRST AID MEASURES**Description of first aid measures**

Inhalation: Remove to fresh air. If irritation develops or persists, get medical attention. When in doubt get medical attention.

Skin Contact: Wash off with plenty of soap and water. Flush for a minimum of 15 minutes. Call a physician if irritation develops or persists. When in doubt get medical attention.
Heated Material: Cool skin rapidly with cold water after contact with molten material. Do not peel solidified product off the skin. Call a physician immediately.

Eye Contact: Rinse cautiously with plenty of water for a minimum of 15 minutes including under the eye lids. Remove contact lenses if present and easy to do. Call a physician if pain, blinking, tears, redness or irritation develops or persists. When in doubt get medical attention.

**SECTION 4. FIRST AID MEASURES** *continued*

Ingestion:	Unlikely route of exposure. If swallowed, Get immediate medical advice/attention. Rinse mouth with water (only if the person is conscience). Never give anything by mouth to an unconscious person. Do not induce vomiting.
Additional Advice:	First aider: Pay attention to self-protection! See Section 8. Never give anything by mouth to an unconscious person or a person. Show this Safety Data Sheet to the physician in attendance. Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist/spray Dry chemical Carbon Dioxide (CO ₂) Alcohol resistant foam Do not use a solid water stream as it may scatter and spread fire.
Specific Hazards:	Avoid dust formation. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Static charges on powders or powders in liquids may ignite combustible atmospheres. Watch footing on floors and stairs because of possible spreading of molten material. Material can create slippery conditions. In case of fire hazardous decomposition products may be produced such as: Carbon oxides (CO, CO ₂), Toxic fumes.
Advice for Firefighters:	
Firefighting instructions:	Use water spray or fog for cooling exposed containers. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering environment. Fight fire from safe distance and protected location.
Protection during firefighting:	Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear personal protective equipment. Evacuate personnel to safe areas. Provide adequate ventilation. May form explosive dust-air mixture Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid dust formation. Accumulation of dust from this product in the workplace may increase the likelihood or severity of an explosion.
------------------------------	---



SECTION 6. ACCIDENTAL RELEASE MEASURES *continued*

Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Eliminate all ignition sources if safe to do so.

Do not swallow.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

(See Section 8)

Environmental Precautions:

Should not be released into the environment.

Prevent product from entering drains.

Clean Up:

Avoid dust formation and electrical charging (sparking) because dust explosion might occur.

Do not create a powder cloud by using brush or compressed air.

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing.

Place in container for disposal according to local regulations (see section 13).

For molten products:

If material is molten, allow to cool. Use caution, as material may still be hot after solidification.

Spilled material will solidify.

Allow to solidify.

Scrape up.

Shovel into suitable container for disposal.

Place in container for disposal according to local regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling:

Wear personal protective equipment (see section 8).

Provide adequate ventilation.

Avoid dust formation.

Floors, walls and other surfaces must be regularly cleaned.

The material can accumulate static charge and can therefore cause electrical ignition.

Static charges on powders or powders in liquids may ignite combustible atmospheres.

Take precautionary measures against static discharges.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Material can create slippery conditions.

Do not swallow.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

Take any precaution to avoid mixing with incompatible materials (see section 10).

Do not allow to enter into surface water or drains.

Keep good industrial hygiene.

Wash hands and face before breaks and immediately after handling of the product.

When using do not eat, drink or smoke.

Take off contaminated clothing.



SECTION 7. HANDLING AND STORAGE *continued*

Advise on protection against Fire and explosion:	All combustible solids have the potential to create a dust explosion hazard. The likelihood of an explosion can be dependent upon many factors, such as the explosive characteristics of the material, the design of the facility, and the manner in which the material is handled. A more detailed discussion can be found in NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids".
Storage:	Keep containers tightly closed in a dry, cool, and well ventilated place. Keep/Store only in original container. Keep away from heat, hot surfaces. Sparks, open flames and other sources of ignition. No smoking Keep away from direct sunlight. Protect from physical damage. Store away from incompatible substances (see section 10).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures:	Ensure that eyewash stations and safety showers are close to the workstation location. Do not swallow. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Engineering Measures:	Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Apply measures to prevent dust explosions. Provide exhaust ventilation if dust is formed. Use only in an area equipped with explosion proof exhaust ventilation. Electrical equipment should be protected to the appropriate standard. If formation of dust is observed, equipment has to be switched off, cleaned and serviced. Provide adequate precautions, such as electrical grounding and bonding. Or inert atmospheres. Organizational measures to prevent/limit releases, dispersion and exposure.
Hand Protection:	Protective gloves. When handling hot material, use heat resistant gloves.
Eye Protection:	Wear as appropriate: Safety goggles with side-shields. For molten product: Goggles or face shield, giving complete protection to eyes.
Respiratory Protection:	In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection.
Skin and Body Protection:	Wear heat protective clothing for handling hot material. Chemical resistant safety shoes.
Hygiene Measures:	Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Keep working clothes separately.
Environmental:	Do not allow to enter into surface water or drains. Observe all Federal, State, and Local Environmental regulations.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Solid pellet
Color:	Off white, cream
Odor:	slight, acrylic-like
pH:	5-8.5
Melting point/freezing point:	176°F-338°F, (80-170°C)
Boiling point/boiling range:	decomposes below the boiling point
Flash point:	No data available.
Flammability:	May form combustible dust concentrations in air
Lower flammability limit:	not applicable
Upper flammability limit:	not applicable
Vapor pressure:	not applicable
Vapor density:	not applicable, (Air=1.0)
Density:	1.0 – 1.3 g/cm ³
Water solubility:	negligible
Partition coefficient:	no data available
Ignition temperature:	not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur. May form combustible dust concentrations in air.
Conditions to Avoid:	Heat, flames, direct sunlight, hot surfaces, sparks and other ignition sources. No smoking.. Avoid dust formation and electrical charging (sparking) because dust explosion might occur. Avoid exposure to temperatures exceeding recommended processing conditions.
Incompatible Materials to Avoid:	Oxidizing agents, strong acids, strong bases.
Hazardous Decomposition Products:	Burning produces noxious and toxic fumes. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂) Organic acids Alcohol

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified Based on available data, the classification criteria are not met
Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitization:	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met



SECTION 11. TOXICOLOGICAL INFORMATION continued

Specific target organ toxicity (repeated Exposure):	Not classified
Aspiration hazard:	Based on available data, the classification criteria are not met
Potential Adverse human health effects and Symptoms:	Not classified
Other information:	Based on available data, the classification criteria are not met
	Dust or particulates may cause mild respiratory tract and eye irritation.
	Related to the physical, chemical and toxicological characteristics. Reference to sections 4. Product may cause mild skin irritation.
	Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:	Ecological injuries are not known or expected under normal use.
Persistence and degradability:	No data available.
Bioaccumulation:	No data available.
Partition coefficient: n-octanol/water:	Not Applicable.
Mobility in soil:	Not Applicable.
PBT/vPvB:	No data available.
Further information:	No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:	Observe all Federal, State, and Local Environmental regulations.
	Where possible recycling is preferred to disposal or incineration.
	This product should not be allowed to enter drains, water courses or the soil.

SECTION 14. TRANSPORT INFORMATION

DOT	Not dangerous goods
TDG	Not dangerous goods
IATA	Not dangerous goods
IMDG	Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories:	
U.S. Toxic Substances Control Act:	Components are on the inventory, or in compliance with the inventory.
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	Components are on the inventory, or in compliance with the inventory.
Japan. Kashin-Hou Law List:	Components are on the inventory, or in compliance with the Inventory.
National regulatory information	
SARA 302 Components:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DE Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311 Hazard Categories:	Acute No Chronic Yes Fire No Pressure No Reactive No



SECTION 15. REGULATORY INFORMATION continued

California Prop. 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WHMIS Classification: Not Rated
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard:	1	1
Flammability:	1	1
Physical Hazard:	0	
Instability:		0

Hazard rating and rating systems (e.g. HMIS®III,NFPA): This information is intended solely for the use of individuals trained in the particular system.

Abbreviations:

- PBT:** persistent, bioaccumulating
- vPvB:** very persistent and very bioaccumulating
- NA:** Not applicable

Current issue: January 2018, added CHEMTREC

The information provided in the 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 a guidance for 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. Final determination of suitability of any material is the sole responsibility of the user. The information should not constitute a guarantee for any specific product properties.

DISCLAIMER: Although all statements and information contained herein are believed to be accurate and reliable, they are presented without guarantee or warranty of any kind, express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liability for use of the information and results obtained. Statements or suggestions concerning the use of material and processes are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all toxicity data and safety measures are indicated herein or that other measures may not be required.

End of Safety Data Sheet