

**SAFETY DATA SHEET**

## SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: BioXpresS-PA16  
Product Description: Proprietary Blend  
Company: Polymer Processing Tech, LLC  
PO Box 3117  
Galveston, TX 77552  
USA  
Polymer Processing Tech, LLC  
811 14<sup>th</sup> St.  
Galveston, TX 77550  
USA  
Telephone No.: 409-770-9809  
Emergency Phone No.: 1-800-424-9300 (CHEMTREC-USA) (24 hours)

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## SECTION 2. HAZARDS IDENTIFICATION INFORMATION

**Emergency Overview**

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

**Classification of the substance or mixture (GHS-US)**

Classification of the substance or mixture: Combustible dust.

**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.

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

## 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. Call physician if irritation develops or persists.  
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.  
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.



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

**Eye Contact:** Rinse cautiously with plenty of water for a minimum of 15 minutes. Call a physician if pain, blinking, tears, redness or irritation develops or persists.

**Ingestion:** Unlikely route of exposure. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do **NOT** induce vomiting. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms/injuries:** Chronic (long-term) health effects may result from repeated overexposure

**Indication of any immediate medical attention and special treatment needed**

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  
Dry chemical  
Carbon Dioxide (CO<sub>2</sub>)  
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<sub>2</sub>), 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.  
Avoid dust formation.  
Accumulation of dust from this product in the workplace may increase the likelihood or



**SECTION 6. ACCIDENTAL RELEASE MEASURES** *continued*

severity of an explosion.  
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.

**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 and place in container for disposal according to local regulations (see section 13).  
Use only non-sparking rolls.

**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.

**SECTION 7. HANDLING AND STORAGE**

**Handling:**

Wear personal protective equipment.  
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.  
Material can create slippery conditions.  
Do not swallow.  
Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.

**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 away from heat and sources of ignition.  
Keep away from direct sunlight.  
Protect from physical damage.  
Store away from incompatible substances. Oxidizing agents  
Maximum storage period, 12 months.



**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/r engineering controls in high temperature processing to prevent exposure to vapors.  
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.
- 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.
- Hygiene Measures:** Wash hands before breaks and at the end of workday.  
Remove and wash contaminated clothing before re-use.  
Keep working clothes separately.

**Occupational Exposure Guidelines:**

BioXpresS-PA16		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable dust) 3 mg/m <sup>3</sup> (respirable dust)
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
USA OSHA	Remarks (US OSHA)	Particulates, not otherwise classified

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state:** Solid powder.
- Color:** Off white/white
- Odor:** waxy mild acrylic ester odor
- pH:** not applicable
- Melting point/freezing point:** 88-140°C
- Boiling point/boiling range:** not determined
- Flash point:** >491°F(255°C)  
Method: closed cup



**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** *continued*

<b>Flammability:</b>	May form combustible dust concentrations in air
<b>Lower flammability limit:</b>	not applicable
<b>Upper flammability limit:</b>	not applicable
<b>Vapor pressure:</b>	not applicable
<b>Vapor density:</b>	not applicable, (Air=1.0)
<b>Density:</b>	0.85 – 1.08 g/cm <sup>3</sup>
<b>Water solubility:</b>	negligible
<b>Partition coefficient:</b>	no data available
<b>Ignition temperature:</b>	not determined

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur. May form combustible dust concentrations in air.
<b>Conditions to Avoid:</b>	Heat, flames, direct sunlight and sparks. Avoid dust formation and electrical charging (sparking) because dust explosion might occur. Avoid exposure to temperatures exceeding recommended processing conditions.
<b>Incompatible Materials to Avoid:</b>	Strong oxidizing agents Amines, strong caustics, alkalis
<b>Hazardous Decomposition Products:</b>	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO <sub>2</sub> )

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	Not classified Based on available data, the classification criteria are not met
<b>Skin corrosion/irritation:</b>	Not classified Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation:</b>	Not classified Based on available data, the classification criteria are not met
<b>Respiratory or skin sensitization:</b>	Not classified Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity:</b>	Not classified Lack of data
<b>Reproductive toxicity:</b>	Not classified Lack of data
<b>Specific target organ toxicity (single exposure):</b>	Not classified Lack of data
<b>Specific target organ toxicity (repeated Exposure):</b>	Not classified Lack of data
<b>Aspiration hazard:</b>	Not classified Not applicable
<b>Potential Adverse human health effects and Symptoms:</b>	Dust or particulates may cause mild respiratory tract and eye irritation. Product may cause mild skin irritation.
<b>Other information:</b>	Likely routes of exposure: ingestion, inhalation, skin and eye



**SECTION 12. ECOLOGICAL INFORMATION**

**Further information on ecology**

**Additional ecological information:** No information on ecology is available.  
Not inherently biodegradable.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods:** Observe all Federal, State, and Local Environmental regulations.

**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:** On the inventory, or in compliance with the inventory  
**Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)** On the inventory, or in compliance with the inventory  
**Japan. Kashin-Hou Law List:** 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**  
**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**

	<b>HMIS III</b>	<b>NFPA</b>
<b>Health hazard:</b>	<b>1</b>	<b>1</b>
<b>Flammability:</b>	<b>1</b>	<b>1</b>
<b>Physical Hazard:</b>	<b>0</b>	
<b>Instability:</b>		<b>0</b>

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.



SECTION 16. OTHER INFORMATION continued

**Current issue:** January 2018, added CHEMTREC

**Further information**

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**End of Safety Data Sheet**