



SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: BioXpresS-Purge
Product Description: Recommended use: for industrial processing only
Supplier: Polymer Processing Tech, LLC Polymer Processing Tech, LLC
 PO Box 3117 811 14th St.
 Galveston, TX 77552 Galveston, TX 77550
 USA USA

Telephone No.: 409-770-9809
Emergency Contact, 24 Hours: CHEMTREC 1-800-424-9300

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SECTION 2. HAZARDS IDENTIFICATION INFORMATION

Classification of the substance or mixture:

According to Regulation (EC) No 830/2015 [CLP]

Not classified

Other hazards:

Before using this resin, please read Handling and Processing Precautions.

Ingestion:	Low toxicity and not a probable route of exposure.
Skin:	Molten polymer will produce thermal burns.
Eye:	Mechanical irritant.
Inhalation:	Polymer granules not respirable. In case of overheating fumes may be irritating to the eyes and upper respiratory tract and lungs.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:

Material	Weight %	CAS No.
Poly (butylene adipate-co-terephthalate)	40 – 50	60961-73-1
Pla (polylactic acid)	20 - 25	9051-89-2
Calcium carbonate	25 - 35	471-34-1

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

Inhalation:

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

Skin Contact:

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention/treatment for thermal burn.

Eye Contact:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If molten material gets into the eyes, immediately flush with plenty of water for at least 15 minutes and obtain medical attention.



Ingestion:

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. If difficulties occur: Seek medical attention. Never induce vomiting. Never give anything by mouth if the victim is unconscious or having convulsions.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

Water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

Water jet

Advice for firefighters:

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. In case of combustion evolution of toxic gases/vapors possible. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protection recommended in Section 8. If molten polymer gets on skin cool rapidly with cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.

Environmental precautions:

No special intervention is indicated as compound is totally biodegradable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place. Keep containers tightly closed to prevent moisture absorption and contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control:

Engineering Controls:

Ventilation when heat processing this material. Use local and/or general exhaust ventilation to control the concentration of vapors and fumes below exposure limits. In cutting or grinding operations, use local exhaust to control the concentration of dust below exposure limits.

Personal protective equipment:

Eye/face protection:

Wear safety glasses. Wear overall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material. A full face mask respirator provides protection from eye irritation.

Hand protection:

Use heat protection gloves when handling hot molten masses. Wear protective gloves.



Respiratory protection:

A niosh/msha approved air purifying respirator with an organic vapor cartridge with a dust/mist filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Exposure Guidelines:

Exposure Limits:

PEL (OSHA): Particulates (Not Otherwise Regulated)
15 mg/m³, 8 hrs. TWA, total dust
5 mg/m³, 8 hrs. TWA, respirable dust

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Color:	White/off white
Odor:	Odorless
pH:	No information available
Melting point/freezing point:	230 - 266°F (110 - 130°C)
Vitrification temperature:	-13°F (-25°C)
Melt mass flow rate/190°C/2.16 kg.	≤4.0g/10 min.
Thermal decomposition temperature	734°F (390°C)
Vicat softening point/A50	199°F (93°C)
Thermal deformation temp./B/TV#0.45	138°F (59°C)
Density:	1.26-1.45 g/cm³
Water solubility:	Insoluble
Moisture content:	0.05%
Explosive properties:	Not an explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

There are hydroxyl groups at the end of the molecular chain.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Decomposition of tetrahydrofuran over 446°F (230°C).

SECTION 10. STABILITY AND REACTIVITY, Continued

Conditions to Avoid:

Heat, moisture

Incompatible Materials to Avoid:

Polyolefin, Polystyrene

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity:

No information is available. Toxicity is expected to be low based on insolubility in water and totally biodegradable. Do not discharge into streams, ponds, lakes or sewers.



SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

Ecological injuries are not known or expected under normal use.

Persistence and degradability:

Inherently biodegradable

Bioaccumulation:

No data available.

Mobility:

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Preferred options for disposal are 1. Recycling, 2. Landfill. BioXpresS-Purge can totally biodegradable makes option 2 a very good choice. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT:

Not regulated

IATA:

Not regulated

IMDG:

Not regulated

SECTION 15. REGULATORY INFORMATION

Federal Regulations:

Registration status:

Chemical TSCA, US released/listed

EPCRA 311/312 (Hazard categories): Not hazardous;

SECTION 16. OTHER INFORMATION

Current issue: January 2020

Further information:

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.

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HMIS (Hazardous Material Identification System) Rating:

0=Minimal, 1=Slight, 2 +Moderate, 3=Serious, 4 =Extreme (*designates chronic hazard)



Polymer Processing Tech, LLC

BioXpresS-Purge

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End of Safety Data Sheet