

CS-404

## SAFETY DATA SHEET

### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** POLYBAC #519 w/Small Beads- PART A

**Company:** POLYGEM INC.  
PO Box 609  
West Chicago, Illinois 60185

**Telephone:** 630-231-5600  
630-231-5604 (Fax Line)

**Emergency Telephone Number:** 1-800-535-5053 USA  
01-352-323-3444 International

### Section 2 - HAZARDS IDENTIFICATION

#### GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin irritation: Category 2, H315  
Skin Sensitization Category 1 H317  
Eye irritation: Category 2, H319

#### GHS LABEL ELEMENTS:

#### HAZARD SYMBOLS:



**SIGNAL WORD:** Warning

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective

**HAZARD STATEMENTS:** H315 Causes skin irritation.  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

#### PRECAUTIONARY STATEMENTS:

**RESPONSE:** P261 Avoid breathing mist/vapors/spray  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, clothing, and eye/face protection.  
**P302 + P352 IF ON SKIN: wash with plenty of soap and water**  
**RESPONSE: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.**  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical attention.  
**P337+P313 If eye irritation persists: Get medical attention.**  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**STORAGE:** Not applicable.

**DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and international regulations.**

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

**HMIS RATING:**

CHEMICAL NAME	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

**Potential Health Effects**

**Eye contact:** Mild or moderate irritation, possible minor temporary cornea injury.  
**Skin contact:** May cause skin irritation on prolonged or repeated exposure.  
**Skin absorption:** Not considered toxic.  
**Inhalation:** May cause nasal irritation, central nervous system depression or lung injury.  
**Chronic effects of over exposure** None

**OSHA GHS Classification**

This product is classified as hazardous as defined within the GHS OSH Hazard Communication Standard 29CFR1910 1200

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS	OSHA PEL*	ACGIH TLV*	WT%
Aluminum Oxide	1344-28-1	N/E	N/E	50-60
Silicon Carbide	409-21-2	N/E	N/E	10
Bisphenol A Epoxy Resin	25058-99-8	N/E	N/E	10
Calcium Carbonate	1317-65-3	N/E	N/E	10
Silica, amorphous, fumed, crystalline free	112945-52-5	N/E	N/E	2

\*ALL INGREDIENTS ARE REGISTERED ON TSCA.

\*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

**STATEMENT OF HAZARDOUS NATURE HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.**

According to the Criteria of NOHSC, and the ADG Code

**Emergency Overview:** Mild or moderate eye irritation.  
 May cause skin irritation.  
 Harmful if swallowed.

**HMIS RATING:**

HEALTH-2, FLAMMABILITY-1, REACTIVITY-1

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

**Potential Health Effects**

**Eye contact:** Mild or moderate irritation, possible minor temporary cornea injury.  
**Skin contact:** May cause skin irritation on prolonged or repeated exposure.  
**Skin absorption:** Not considered toxic.  
**Inhalation:** May cause nasal irritation, central nervous system depression or lung injury.  
**Chronic effects of over exposure:** None

**Upper Flammable Limit:**

N/A

**Recommended Extinguishing Media:**

foam, carbon dioxide, dry chemicals or fog.

**Special Fire Fighting Procedures:**

Firefighters should wear protective goggles and self contained breathing apparatus to avoid inhalation of smoke or vapors. Remove all ignition sources.

**Unusual Fire or Explosion Hazards**

(conditions t None known to Polygem

## Section 6: Accidental Release Measures

**Special Protection:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

### Steps to be taken in case of material is released or spilled:

Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container. Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

**Transport Emergency Phone Number:** (INFOTRAC) 1-800-535-5053

## Section 7: Handling and Storage

**Handling:** Harmful or irritation material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

**Storage:** Store in a cool, dry place.

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## Section 8: Exposure Control/Personal Protection

**Respiratory Protection:** If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self-contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910134). Not required for properly ventilation area.

**Ventilation:** Local exhaust and general ventilation is recommended.

## Section 8: Exposure Control/Personal Protection (continued)

**Hand Protection:** Nitrile Rubbers gloves.

**Eye Protection:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

**Skin and Body Protection:** Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

## Section 9: Physical and Chemical Properties

<b>Physical state:</b>	Gel
<b>Color:</b>	White
<b>Odor:</b>	Aromatic Odor
<b>Weight by gallon:</b>	15 lbs.
<b>Solids (% by weight)</b>	100
<b>V.O.C.</b>	0 g/L
<b>Boiling range:</b>	280 F
<b>Melting point:</b>	N/A
<b>Density:</b>	1.2
<b>Percent volatile:</b>	0 by Weight
<b>Vapor density (air=1):</b>	Heavier than air
<b>Vapor pressure (mm Hg):</b>	N/A
<b>Evaporation rate:</b>	N/A
<b>Water miscibility:</b>	Limited

## Section 10: Stability and Reactivity

**Stability:** Stable

**Incompatibility:** Strong Oxidizers, acids, bases and epoxy hardeners under controlled conditions.  
**Hazardous polymerization:** Will not occur.  
**Hazardous decomposition products:** Carbon Monoxide, Carbon Dioxide, smoke. Others Unknown.  
**Conditions to avoid:** Heat and warm storage.

### Section 11: Toxicological Information

**Chemical Name** LD50/LC50  
**Epoxy Resin** Not established

### Section 12: Ecological Information

**Overview:** No ecological information available.

### Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

### Section 14: Transport Information

Consult Bill of Lading for transportation information

**DOT:** Not Regulated  
**IATA:** Not Regulated

### Section 15: Regulatory Information

**OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es):** N/A

**SARA Hazard Classification:** SARA Title III Regulations (40 CFR 370): Acute

**SARA Section 313 Listed Ingredients:** This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

**DOT Proper Shipping Name:** n/a

**UN Number:** n/a

### Section 16: Other Information

This information is furnished without warranty, representation inducement or license of any kind, except that is accurate to the best of Polygem Inc. knowledge, or obtained from sources believed by Polygem Inc. to be accurate and Polygem Inc. does not assure any legal responsibility for use reliance upon the same. Customers are encouraged to conduct their own tests. Before using any product, please read its label.

Revision Date: 01/2015



CIS-404

# SAFETY DATA SHEET

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** POLYBAC #519 With Large Beads - PART B

**Company:** POLYGEM INC.  
PO Box 609  
West Chicago, Illinois 60185

**Telephone:** 630-231-5600  
630-231-5604 (Fax Line)

**Emergency Telephone Number:** 1-800-535-5053 USA  
01-352-323-3444 International

## Section 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to the Regulation (EC) No. 1272/2008**

Acute Dermal Toxicity Category 4

Acute Oral Toxicity Category 4

Skin Sensitization Category 1

Skin Corrosion/Irritation Category 1B

Chronic Aquatic Toxicity Category 2

**Classification according to the Regulation Directive 199/45/EC:** [Xn] Harmful, [C] Corrosive, [N] Dangerous to the Environment

**Information Concerning particular hazards for human and environment:**

**Product Description:** This product is grey heavy paste with a sweet amine odor

**Health Hazards:** Corrosive, Severe eye irritant; Respiratory Irritant, may cause skin sensitization.

**Flamability Hazards:** This product is flammable above it's flashpoint of 380F (195 C)

**Reactivity Hazards:** None known.

**Environmental Hazards:** The environmental effects of this product have not been investigated; however it is not expected to cause significant adverse effects.

**Emergency Considerations:** Emergency responders must wear proper personal protective equipment (and have appropriate fire suppression equipment) suitable for the situation to which they are responding.

### Classification system:

This classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 2.2 Label elements

**Labeling according to Regulation (EC) no. 1272/2008:**

**Hazard Pictograms:**



GHS05



GHS07



GHS09

**Signal Word:** Danger

**Hazard-determining component of labelling:** Diethylenetriamine

**Hazard Statements:**

H302: Harmful if swallowed

H313: May be harmful in contact with skin

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

**Precautionary Statements**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection.

**Response Statements**

- P337+P313: If eye irritation persists: Get medical advice/attention.
- P370+P378: In case of fire: Use appropriate media for extinction
- P302+P353: IF ON SKIN: Wash with plenty of soap and water for extinction
- P391: Collect spillage
- P403+P235: Store in well ventilated place. Keep cool.
- P501: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Hazard Description**

This

HMIS-ratings (scale 0 - 4)

CHEMICAL NAME	
HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	F

**2.3 Other Hazards**

None Known

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not "hazardous" per the OSHA standard.

**Section 3: Hazards Identifications**

Chemical Name	CAS #	OSHA PEL*	ACGIH TLV*	WT%
Diaminodiphenylmethane	101-77-9	.01 ppm (S) 10 ppb.	N/E	2
Modified Aliphatic Polyamine	T/S	N/E	N/E	5
Diethylenetriamine	111-40-0	1 ppm ACGIH (S)	N/E	1
Aluminum Oxide	1344-28-1	N/E	N/E	50-60
Silicon Carbide	409-21-2	N/E	N/E	10
Calcium Carbonate	1317-65-3	N/E	N/E	10
Silica, amorphous, fumed, crystalline free	112945-52-5	N/E	N/E	2

\*ALL INGREDIENTS ARE REGISTERED ON TSCA.

\*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

\*T/S - Trade Secret

**Emergency Overview:**

Mild or moderate eye irritation.  
 May cause skin irritation.  
 Harmful if swallowed.

**HMIS RATING:**

HEALTH-3, FLAMMABILITY-1, REACTIVITY-0  
 See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

**Potential Health Effects**

- Eye contact:** Mild or moderate irritation, possible minor temporary cornea injury.
- Skin contact:** May cause skin irritation on prolonged or repeated exposure.
- Skin absorption:** Not considered toxic.
- Inhalation:** May cause nasal irritation, central nervous system depression or lung injury.
- Chronic effects of over None**

**Section 4: First Aid Measures**

**EMERGENCY & FIRST AID PROCEDURES:**

**Eyes:** Flush with plenty of water and get medical attention. Keep eye lids apart. Wash within 1 minute

of contact for maximum results.

**Skin:** Promptly wipe clean with paper or cloths and wash with soap and water. Remove contaminated clothing before reuse. Attention should be paid to hair, nose and eyes.

**Inhalation:** In case of exposure to high concentration of vapor or mist, remove person to fresh air.

**Ingestion:** If large amounts are swallowed, induce vomiting. Seek medical attention. May cause burns to mouth and throat.

**Primary routes of exposure:** Inhalation, Ingestion, skin and eye contact.

**Carcinogenicity:** This product does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC or OSHA.

## Section 5: Fire Fighting Measures

**Flash Point:** 234 F

**Test Method:** Setflash Closed Cup

**Lower Flammability Limit:** N/A

**Upper Flammable Limit:** N/A

**Recommended Extinguishing Media:** Water, Foam, Carbon Dioxide, Dry Chemicals or Fog.

**Special Fire Fighting Procedures:** Firefighters should wear protective goggles and self contained breathing apparatus to avoid inhalation of smoke or vapors. Remove all ignition sources.

### Unusual Fire or Explosion Hazards

(conditions to avoid) May produce hazardous fumes or hazardous decomposition products, such as carbon dioxide, carbon monoxide, hydrogen sulfide, oxides of sulfur and nitrogen.

## Section 6: Accidental Release Measures

**Special Protection:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

### Steps to be taken in case of material is released or spilled:

Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container. Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

**Transport Emergency Phone Number:** (INFOTRAC) 1-800-535-5053

## Section 7: Handling and Storage

**Handling:** Harmful or irritation material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

**Storage:** Store in a cool, dry place.

## Section 8: Exposure Control/Personal Protection

**Respiratory Protection:** If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self-contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910.134). Not required for properly ventilation area.

**Ventilation:** Local exhaust and general ventilation is recommended.



**Hand Protection:** Nitrile Rubbers gloves.

**Eye Protection:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

**Skin and Body Protection:** Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

### Section 9: Physical and Chemical Properties

**Physical state:** Gel  
**Color:** Gray  
**Odor:** Amine Odor  
**Weight by gallon:** 14 lbs  
**Solids (% by weight)** 100  
**V.O.C.** 0 g/L

**Boiling range:** 335 F  
**Melting point:** N/E  
**Density:** 1.04  
**Percent volatile:** N/D  
**Vapor density (air=1):** Not Volatile  
**Vapor pressure (mm Hg):** N/E  
**Evaporation rate:** N/A  
**Water miscibility:** <0.1%

### Section 10: Stability and Reactivity

**Stability:** Stable  
**Incompatibility:** Strong oxidizers, epoxy resin, and amine mixtures especially when hot.  
**Hazardous polymerization:** Will not occur.  
**Hazardous decomposition products:** Oxides of Carbon and Phenolics under burning conditions  
**Conditions to avoid:** Heat and warm storage

### Section 11: Toxicological Information

**Chemical Name** LD50/LC50

**Modified Aliphatic Polyamine** Not established

### Section 12: Ecological Information

**Overview:** No ecological information available.

### Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

### Section 14: Transport Information

Consult Bill of Lading for transportation information

**DOT:** CORROSIVE LIQUID N.O.S.  
**IATA:** CORROSIVE LIQUID N.O.S.

### Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es): N/A

SARA Hazard Classification: SARA Title III Regulations (40 CFR 370): N/A

SARA Section 313 Listed Ingredients: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT Proper Shipping Name: Corrosive Liquid N.O.S. (Aromatic Diamine Mixture)

UN Number: UN1760

### Section 16: Other Information

This information is furnished without warranty, representation inducement or license of any kind, except that is accurate to the best of Polygem Inc. knowledge, or obtained from sources believed by Polygem Inc. to be accurate and Polygem Inc. does not assure any legal responsibility for use reliance upon the same. Customers are encouraged to conduct their own tests. Before using any product, please read its label.

Revision Date: 01/2015