SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #519 LARGE BEADS - PART A

Company: POLYGEM INC.

PO Box 609

West Chicago, Illinois 60186

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

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Section 2 - HAZARDS IDENTIFICATION CONTINUED

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.

STATEMENT OF HAZARDOUS NATUREHAZARDOUS 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

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

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 entry: Inhalation, Ingestion, skin and eye contact.

Carcinogenit 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: Setaflash 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

Hamdling: 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 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 exits 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: White

Odor: Aromatic Odor

 Weight by gallon:
 15 lbs.

 Solids (% by weight)
 100

 V.O.C.
 0 g/L

Boiling range: 280 F
Melting point: N/A
Density: 1.2

Percent volatile: 0 by Weight Vapor density (air=1): Heavier than air

Vapor pressure (mm Hg): N/A
Evaporation rate: N/A
Water miscibility: 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

<u>Chemical Name</u> <u>LD50/LC50</u>

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: 9/2023

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SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

519 LARGE BEADS- PART B **Product Name:**

Company: POLYGEM INC.

PO Box 609

West Chicago, Illinois 60186

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 fashpoint 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

Signal Word: Danger

Hazard-determining component of labelling: Diethylenetriamine

Hazard Statements:

H302: Harmful is 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.

Section 2 - HAZARDS IDENTIFICATION (continued)

P264: Wash hands thoroughly after handling

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+P313If eye irritation persists:Get medical advice/attention.

P370+P378-In case of fire:Use appropriate mediafor extinction

P302+P353: IF ON SKIN: Wash with plenty of soap and waterfor 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		
PHYSICAL HAZARD	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%		
Diaminodiphenlymethane	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.

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 exposure: NONE

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

^{*}T/S - Trade Secret

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 entry: Inhalation, Ingestion, skin and eye contact.

Carcinogenity: 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: Setaflash 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

Hamdling: 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 1910134). 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 exits 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 FMelting point:N/EDensity:1.04Percent 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 oxiders, 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

<u>Chemical Name</u> <u>LD50/LC50</u>

Modified Aliphatic Polyamine Not established

Section 12: Ecological Information

Overview: No ecological information available.

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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. (Diaminodiphenylmethane/Diethylene Triamine)

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. 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.

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