Revision Date: 01/2008

MATERIAL SAFETY DATA SHEET

Product Name:	Section 1: Product and Company Identification POLYBAC #519 - PART A	n
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: Composition / Information on Ingredients

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.

Chemical Name	CAS #	OSHA PEL*	ACGIH TLV*	WT%
Bisphenol A Epoxy Resin	25058-99-8	N/E	N/E	

* N/E - Not Established

*ALL INGREDIENTS ARE REGISTERED ON TSCA.

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

Section 3: Hazards Identifications

Emergency Overview:	Mild or moderate eye irritation. May cause skin irritation. Harmful if swallowed.
HMIS RATING:	HEALTH-2, 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

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.

Section 4: First Aid Measures (continued)		
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:	<200 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):	No Unusual Hazards.

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.

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: Special Protection Information

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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:	Paste
Color:	Olive Color
Odor:	Sweet Odor
Weight by gallon:	15 lbs.
Solids (% by weight)	100
V.O.C.	0 g/L
Boiling range:	N/A
Melting point:	N/D
Density:	1.16
Percent volatile:	N/D
Vapor density (air=1):	>1
Vapor pressure (mm Hg):	<1
Evaporation rate:	N/A
Water miscibility:	Slight

Section 10: Physical and Chemical Properties

Stability: Incompatibility:	Stable Strong Oxidizers, acids and bases, and amine mixtures especially when hot.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Carbon Monoxide, Carbon Dioxide, Aldehydes, Acids and Phenolics
Conditions to avoid:	High heat, amines, strong oxidizers acids and bases.

Section 11: Toxicological Information

Chemical Name

LD50/LC50

Not established

Epoxy Resin

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.

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Section 14: Transport Information

Reactivity:

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	
HMIS Rating:		
Health: Flammability:	2 1	

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MATERIAL SAFETY DATA SHEET

Revision Date: 01/2008

	Section 1: Product and	I Company Identification
Product Name:	POLYBAC #519 - P	ART B
Company:	POLYGEM INC. PO Box 609 West Chicago, Illino	is 60185
Telephone:	630-231-5600 630-231-5604 (Fax	Line)
Emergency Telephone Number:	1-800-535-5053 01-352-323-3444	USA International

Section 2: Composition / Information on Ingredients

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.

Chemical Name	CAS #	OSHA PEL*	ACGIH TLV*	WT%
Diaminodiphenlymethane	101-77-9	.01 ppm (S) 10 ppb.	N/E	
Modified Aliphatic Polyamine	T/S	N/E	N/E	
Diethylenetriamine	111-40-0	1 ppm ACGIH (S)	N/E	

* N/E - Not Established

*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

Section 3: Hazards Identifications

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

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 contaminate
	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:	453 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 funes or hazardous decomposition products.
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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.

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: Special Protection Information

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Section 8: Special Protection Information (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:	Paste
Color:	Tan
Odor:	Characteristic Odor
Weight by gallon:	15 lbs.
Solids (% by weight)	100
V.O.C.	0 g/L
Boiling range:	N/D
Melting point:	N/A
Density:	1.12
Percent volatile:	Low
Vapor density (air=1):	1
Vapor pressure (mm Hg):	N/D
Evaporation rate:	N/A
Water miscibility:	Moderate

Section 10: Physical and Chemical Properties

Section 11: Toxicological Information

Chemical Name

LD50/LC50

Aromatic Diamine Mixture

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.

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Section 14: Transport 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): 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		

HMIS Rating:

Health:	3
Flammability:	1
Reactivity:	0

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.