

CIS-70-4

SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #580 FS - Part A

Company: POLY GEM INC.
PO Box 609
West Chicago, Illinois 60185

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

Emergency Telephone Number: 1-800-535- USA
01-352-32: International

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not "hazardous" per the OSHA standard.

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|--|---|
| <p>RISK</p> <ul style="list-style-type: none"> ■ Harmful in contact with skin and if swallowed. ■ Causes burns ■ Risk of serious damage to eyes. ■ May cause SENSITISATION by skin contact. ■ Harmful to aquatic organisms, may cause long- term adverse effects in the aquatic environment. | <p>SAFETY</p> <ul style="list-style-type: none"> • Keep locked up • Avoid contact with skin. • Avoid contact with eyes. • Wear suitable protective clothing. • Wear suitable gloves. • Wear eye/face protection. • To clean the floor and all objects contaminated by this material, use water and detergent. • Take off immediately all contaminated clothing. • In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre. • In case of accident or if you feel unwell immediately contact Doctor or Poisons Information Centre, show product and this MSDS label if possible. |
|--|---|

Emergency Overview:

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

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

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
(condition: None known to Polygem)

Section 4 - FIRST AID MEASURES

Description of First Aid Measures

General advice: consult a physician; show this SDS to doctor in attendance.

In the event of skin contact: Drench the affected area immediately with plenty of water:
Remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes
Seek medical attention if irritation, rash or other adverse effects occur.

In the event of eye contact: Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eye lids. Get medical attention if symptoms persist.

In the event of exposure by inhalation: Move person to fresh air. Get medical attention if symptoms develop

Most important symptoms and effects both acute and delayed

Skin irritation, allergic reactions.

Indication of immediate medical attention and special treatment needed

No specific antidote; treat symptomatically
Eye wash stations and emergency showers should be available.

Section 5 - FIRE FIGHTING MEASURES

Recommended Extinguishing Media: Foam, carbon dioxide, dry chemicals or fog. Use water spray to cool fire exposed containers. **Do not use direct water stream which may spread fire.**

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
Exposure to decomposition products may be harmful to health; combustion products may include

but are not limited to: carbon monoxide, carbon dioxide, phenolics, aldehydes; smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

Advice for fire fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

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 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

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 CF 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

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C/S -70-4

SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #580 FS - PART B

Company: POLY GEM 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

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:

GHS Hazard Pictograms:

GHS S07



Signal Word: Warning

Hazard Statements:

- H302: Harmful if swallowed
- H313: May be harmful in contact with skin
- H315: May cause skin irritation
- H320: Causes eye irritation

Precautionary Statements

- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash hands thoroughly after handling
- P270: Do not eat, drink or smoke when using this product.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection.
- P301+P330+P314 - If swallowed: Rinse mouth with water and get medical attention if you feel unwell..
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water

Response Statements

- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 - In case of fire: Use appropriate media 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.

Emergency Overview: Irritant

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Eye: May cause eye irritation

Skin: May cause skin irritation

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed. May cause vomiting

Chronic Health Effects: Prolonged or repeated skin contact may result in irritation.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

CHEMICAL NAME	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

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%
Polymercaptan Resin	TS		N/E	<40
Calcium Carbonate	1317-65-3	N/E	N/E	<50
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 e 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.

Carcinogeny: 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: >250C
Test Method: Pensky-Marten Closed Cup (PMCC)
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: Black
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
Polymercaptan Resin	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: Not Regulated as hazardous material for transportation
IATA Shipping Name: Aviation Regulated Liquid, N.O.S. (Mercaptan-terminated polymer)
IATA UN Number: UN 3334
IATA Hazard Class: 9
IATA Packing Group: III
IMDG Shipping Name: Not regulated as hazardous material for transportation.

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.

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.