



Safety Data Sheet

Section 1 – Chemical Product and Company Identification

1.1 Product identifier:

Product Name: SM 2004 Part A
Product Code: SM2004A
Effective Date: 10/16/2015
Revision Date: -

1.2 Recommended use and restrictions on use:

Product Use: Epoxy Resin
Restrictions: Not available

1.3 Name, address, and telephone number of the chemical manufacturer:

GS Polymers, Inc.
3687-B Grapevine Street
Mira Loma, CA 91752
(951) 360-0607

1.4 Emergency telephone number:

24 Hr. Emergency CHEMTREC # 1-800-424-9300

Section 2 – Hazards Identification

2.1 Classification according to 29 CFR §1910.1200 (d):

Classification: Skin corrosion/irritation - Category 2
Eye damage/irritation - Category 2A
Skin sensitization - Category 1
Germ cell mutagenicity - Category 2
Carcinogenicity - Category 2
Toxic to reproduction - Category 1B
Specific target organ toxicity - single exposure - Category 1 (Thymus)
Specific target organ toxicity - single exposure - Category 3 (Respiratory tract)
Hazardous to the aquatic environment - chronic - Category 3

2.2 Label elements according to 29 CFR §1910.1200 (f):**Hazard Symbols:**

Signal Words: Danger

Hazard Statements: Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

Suspected of causing genetic defects.
Suspected of causing cancer.
May damage fertility or the unborn child
Causes damage to organs. (Thymus)
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.

Precautionary Statements:**Prevention:**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash exposed areas thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.

Response:

If exposed or concerned: Get medical advice/attention.

If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.

Storage:

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents in accordance with all local, regional, national and international regulations.

2.3 Hazards not otherwise classified in the classification process:

None

2.4 Ingredients (Present at $\geq 1\%$) of unknown toxicity:

None

2.5 Supplemental Information:

If product is in liquid or cured (solid) form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

 Section 3 – Composition/Information on Ingredients

3.1.1 Hazardous ingredients(s)

Chemical Name	CAS NO.	% (by wt.)
Epoxy Resin (Diglycidyl Ether of Bis-Phenol A)	25068-38-6	< 50.0 %
Dibutyltin oxide	818-08-6	0.5 – 1.5 %
Di(2-ethylhexyl) phthalate	117-81-7	0.5 – 1.5 %

3.1.2 Non-hazardous ingredient(s)

Remaining components are non-hazardous and/or present at amounts below reportable limits.

3.2 Trade secrets (if applicable):

* Designates a specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

 Section 4 – First Aid Measures

4.1 Description of first aid measures

Eyes: Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of entire eye surface and lids with water. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Skin: Remove contaminated clothing. Wipe off excess material from exposed area. Flush exposed area with water. Wash area with soap and water. Continue to rinse for at least 10 minutes. If skin irritation or rash occurs, get medical attention. Do not reuse clothing until clean. Contaminated leather articles including shoes cannot be cleaned and should be discarded.

Inhalation: Move victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if victim feels unwell. If victim is unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie belt or waistband.

Ingestion: Wash mouth out with water. If victim is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep victim's head low so that vomit does not enter the lungs. Call Poison Center or get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed:

No data available

4.3 Indication of any immediate medical attention and special treatment needed:

No data available

 Section 5 – Fire-Fighting Measures

5.1 Suitable extinguishing media:

Use dry chemical, CO₂, water spray (fog) or foam.

5.2 Specific hazards arising from the product:

If heated, a pressure increase will occur and the container may burst.

5.3 Special protective equipment and precautions for fire-fighters:

Use standard fire-fighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

No action should be taken involving any personal risk or by personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.2 Methods and materials for containment and cleaning up:

Small spill: Stop leak if it is possible to do without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of waste with a licensed waste disposal contractor.

Large spill: Stop leak if it is possible to do without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7 – Handling and Storage

7.1 Precautions for safe handling:

Put on appropriate personal protective equipment (see section 8 of SDS). Individuals with a history of skin sensitization should not be employed in any process in which this product is used. Do not get in eyes, on skin or on clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material. Keep container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Optimal storage temperature: 72F – 100F.

Avoid prolonged storage temperatures above 38C/100F. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

 Section 8 – Exposure Controls/Personal Protection

8.1 Exposure Limits:

Chemical Name	CAS NO.	Exposure Limit
Epoxy Resin (Diglycidyl Ether of Bis-Phenol A)	25068-38-6	Not Established
Dibutyltin oxide	818-08-6	TWA 0.1 mg/m ³
Di(2-ethylhexyl) phthalate	117-81-7	TWA 5 mg/m ³

8.2 Engineering Controls:

Ventilation: Good general mechanical ventilation and local exhaust.

8.3 Personal Protective Equipment:

Eye Protection: Wear splash resistant safety goggles.

Skin Protection: Wear impervious gloves and other clothing to prevent contact.

Respirators: Organic vapor respirator if adequate ventilation is not present. (National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors recommended.)

Hygienic Practices: Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage areas. Food or beverages should not be consumed near where this product is stored. Remove and wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

8.4 Additional Precautions

Where cutting or grinding of the cured material is to occur, use adequate ventilation and dust controls. To minimize exposure, employees should wear respirator approved for silica dust. Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Use good housekeeping to avoid accumulation of dust in the work area. See also American Society for Testing and Materials (ASTM) Standard Practice E1132-99a, "Standard Practice for Health Requirements Relating to Occupational Exposure to respirable Crystalline Silica".

 Section 9 – Physical and Chemical Properties

Appearance	Viscous liquid
Color	Tan - Brown
Odor	Not Established
Odor Threshold	Not Established
pH	Not Established
Melting Point/Freezing Point	Not Established
Boiling Point	Not Established
Flash Point	>200°F (>93.33°C)
Evaporation Rate	Not Established
Upper/Lower flammability or explosive limits	Not Established
Vapor Pressure	Not Established
Vapor Density	Not Established
Relative Density	
Specific Gravity	1.50
Bulk Density (lbs./gal)	12.52
Solubility	Slightly Soluble
Partition Coefficient; n-octanol/water	Not Established
Auto-ignition temperature	Not Established
Viscosity	< 10,000 cps

Note: Physical data presented above are typical values and should not be construed as a specification.

Section 10 – Stability and Reactivity

- 10.1 Reactivity:** Stable under normal conditions.
- 10.2 Chemical Stability:** Product is stable.
- 10.3 Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to Avoid:** Extremes of temperature and direct sunlight.
- 10.5 Incompatible Materials:** Reactive or incompatible with the following materials: aliphatic amines, strong oxidizing agents, strong acids.
- 10.6 Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- 10.7 Other Hazards:** Reacts with considerable heat release with some curing agents.

Section 11 – Toxicological Information

11.1 Information on the likely routes of exposure:

Not Available

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Eye Contact: Pain or irritation, watering, redness
Inhalation: Respiratory tract irritation, coughing
Skin Contact: Irritation, redness
Ingestion: No specific data

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Eye Contact: Causes serious eye irritation.
Inhalation: May cause respiratory irritation.
Skin Contact: Causes skin irritation. May cause an allergic skin reaction.
Ingestion: Irritating to mouth, throat and stomach.

Long term exposure: Not Available

Chronic effects: Not Available

11.4 Numerical Measure of toxicity (Acute toxicity estimates)

ATE US (oral) 2600 mg/kg body wt

Acute Toxicity Data:

Epoxy Resin (Diglycidyl Ether of Bis-Phenol A)
 LD50 Oral Rat 11,400 mg/kg

LD50 Dermal	Rat	2,000 mg/kg
Dibutyltin oxide		
LD50 Oral	Rat	44.9 mg/kg
Di(2-ethylene) phthalate		
LD50 Oral	Rat	6,860 mg/kg
LD50 Dermal	Rat	25,000 mg/kg

11.5 Carcinogenicity:

Not Available

Section 12 – Ecological Information

12.1 Ecotoxicity:

Di(2-ethylhexyl) phthalate

LC50 Fish 1 > 0.16 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

EC50 Daphnia 1 > 0.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)

LC 50 Fish 2 > 0.200 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

EC50 Daphnia 2 9.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)

NOEC chronic crustacea 0.158 (Exposure time: 21d - Species: Daphnia magna)

Dibutyltin oxide

EC50 Daphnia 1 2 mg/l (Exposure time: 48 h, Species: Daphnia Magna)

12.2 Persistence and Degradability: Not Available

Di(2-ethylhexyl) phthalate

BCF fish 1 1 - 29.7

Log Pow 5.03

12.3 Bioaccumulative Potential: Not Available**12.4 Mobility in Soil:** Not Available**12.5 Other Adverse Effects:** Not Available

Section 13 – Disposal Considerations

13.1 Information on waste and methods of disposal

Dispose of contents in accordance with all local, regional, national and international regulations.

Section 14 – Transportation Information

14.1 Transportation information**Land Transportation (DOT):****Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Dibutyl Tin Oxide)**Hazard Class:** 9**Identification Number:** UN 3082**Packing group:** III**Marine Pollutant:** Yes**Sea Transportation (IMDG):****Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Dibutyl Tin Oxide)

Hazard Class: 9
Identification Number: UN 3082
Packing group: III
Marine Pollutant: Yes

Air Transportation (IATA):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Dibutyl Tin Oxide)
Hazard Class: 9
Identification Number: UN 3082
Packing group: III
Marine Pollutant: Yes

14.2 Transportation in bulk according to Annex II of Marpol 73/78 and the IBC Code:

This product is not intended to be transported in bulk containers.

14.3 Special precautions for transportation:

No data available

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations specific for the product in question.

This regulatory information is not intended to be comprehensive. Other regulations may apply to this material. To determine applicability or effects of any law or regulation with respect to the product, user should seek legal advice or consult with the appropriate government agency. GS Polymers, Inc. does not undertake to furnish advice on regulatory matters.

United States Federal Regulations:**US EPA CERCLA Hazardous Substances (40 CFR 302):**

Not Evaluated

SARA Section 311/312 Hazard Categories:

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required:

None above de minimis concentration

State Right-To-Know Information:

For details of your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Not Evaluated

California Prop. 65: This product contains the chemicals listed below, which the State of California has found to cause cancer, birth defects or reproductive harm.

Di(2-ethylene) phthalate	(cancer, reproduction)
Oxirane, 2-(phenoxymethyl)-	(cancer)
Ethylbenzene	(cancer)
Benzene 71-43-2	(cancer, reproduction)
Toluene 108-88-3	(reproduction)
Crystalline silica (quartz)	(cancer)

Section 16 – Other Information

16.1 Date of preparation or last revision:

Company: GS Polymers, Inc.
Rev Date: 10/16/2015
Rev By: BN

Reason for Change:

This revision updates SDS formatting according to OSHA Hazard Communications Standard (HCS) promulgated on March 20, 2012.

16.2 Additional information:**HMIS Ratings:**

Health: 2*
Flammability: 1
Physical Hazard: 0

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of GS Polymers' product safety program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, user should seek legal advice or consult with the appropriate government agency. GS Polymers, Inc. does not undertake to furnish advice on such matters.



Safety Data Sheet

Section 1 – Chemical Product and Company Identification

1.1 Product identifier:

Product Name: SM 2004 Part B
Product Code: SM2004B
Effective Date: 10/16/2015
Revision Date: -

1.2 Recommended use and restrictions on use:

Product Use: Component of epoxy polymer system
Restrictions: Not available

1.3 Name, address, and telephone number of the chemical manufacturer:

GS Polymers, Inc.
3687-B Grapevine Street
Mira Loma, CA 91752
(951) 360-0607

1.4 Emergency telephone number:

24 Hr. Emergency CHEMTREC # 1-800-424-9300

Section 2 – Hazards Identification

2.1 Classification according to 29 CFR §1910.1200 (d):

Classification: Skin corrosion/irritation - Category 1B
Eye damage/irritation - Category 1
Respiratory sensitization - Category 1
Skin sensitization - Category 1
Specific target organ toxicity - single exposure - Category 2 (Nervous system, Eyes)

2.2 Label elements according to 29 CFR §1910.1200 (f):**Hazard Symbols:**

Signal Words: Danger

Hazard Statements: Causes severe skin burns and eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause damage to the nervous system (optic nerve) by eye contact or ingestion.

Precautionary Statements:

- Prevention:** Do not breathe vapors or mists.
Do not eat, drink or smoke when using this product.
Wear respiratory protection.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear eye protection/face protection.
Wash exposed areas thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
- Response:** If exposed or concerned: Call a poison center/doctor.
- If swallowed: Rinse mouth. Do NOT induce vomiting.
Immediately call a poison center/doctor.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center/doctor.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
- If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a poison center/doctor.
- Storage:** Store locked up.
- Disposal:** Dispose of contents/container in accordance with local, regional, national and international regulations.

2.3 Hazards not otherwise classified in the classification process:

None

2.4 Ingredients (Present at ≥ 1%) of unknown toxicity:

None

2.5 Supplemental Information:

If product is in liquid or cured (solid) form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

Section 3 – Composition/Information on Ingredients

3.1.1 Hazardous ingredients(s)

Chemical Name	CAS NO.	% (by wt.)
Proprietary mineral filler	*	< 10.0 %
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	< 10.0 %
Organosilane	*	< 1.0 %
Methanol	67-56-1	< 0.5 %

Impurities	CAS NO.	% (by wt.)
Crystalline Silica (quartz) †	14808-60-7	< 0.2%

† Component is hazardous if present as a respirable dust. See Section 2.5 and Section 8.4

3.1.2 Non-hazardous ingredient(s)

Chemical Name	CAS NO.	% (by wt.)
Silyl terminated polyether	*	25.0 - 50.0 %

Remaining components are non-hazardous and/or present at amounts below reportable limits.

3.2 Trade secrets (if applicable):

* Designates a specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4 – First Aid Measures

4.1 Description of first aid measures

Eyes: Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of entire eye surface and lids with water. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Skin: Remove contaminated clothing. Wipe off excess material from exposed area. Flush exposed area with water. Wash area with soap and water. Continue to rinse for at least 15 minutes. If skin irritation or rash occurs, get medical attention. Do not reuse clothing until clean. Contaminated leather articles including shoes cannot be cleaned and should be discarded.

Inhalation: Move victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if victim feels unwell. If victim is unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie belt or waistband.

Ingestion: Wash mouth out with water. If victim is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep victim's head low so that vomit does not enter the lungs. Call Poison Center or get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed:

No data available

4.3 Indication of any immediate medical attention and special treatment needed:

No data available

Section 5 – Fire-Fighting Measures

5.1 Suitable extinguishing media:

Use dry chemical, CO₂, water spray (fog) or foam.

5.2 Specific hazards arising from the product:

If heated, a pressure increase will occur and the container may burst. Carbon oxides. Nitrogen oxides (NO_x). Aldehydes. Various polymer compounds. Contact with water will release small amounts of flammable methanol.

5.3 Special protective equipment and precautions for fire-fighters:

Use standard fire-fighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

No action should be taken involving any personal risk or by personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.2 Methods and materials for containment and cleaning up:

Small spill: Stop leak if it is possible to do without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of waste with a licensed waste disposal contractor.

Large spill: Stop leak if it is possible to do without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7 – Handling and Storage

7.1 Precautions for safe handling:

Put on appropriate personal protective equipment (see section 8 of SDS). Individuals with a history of skin sensitization should not be employed in any process in which this product is used. Do not get in eyes, on skin or on clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material. Keep container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 – Exposure Controls/Personal Protection

8.1 Exposure Limits:

OSHA PEL Chemical Name	CAS NO.	OSHA (ACGIH) TLV
Silyl terminated polyether	*	Not Established
Proprietary mineral filler (respirable)	*	TWA 10 mg/m ³
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	Not Established

Organo-silane	*	Not Established
Methanol	67-56-1	TWA 200 ppm
Quartz (respirable fraction)	14808-60-7	TWA 0.025 mg/m3

8.2 Engineering Controls:

Ventilation: Good general mechanical ventilation and local exhaust.

8.3 Personal Protective Equipment:

- Eye Protection:** Wear splash resistant safety goggles.
- Skin Protection:** Wear impervious gloves and other clothing to prevent contact.
- Respirators:** Organic vapor respirator if adequate ventilation is not present. (National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors recommended.)
- Hygienic Practices:** Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage areas. Food or beverages should not be consumed near where this product is stored. Remove and wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

8.4 Additional Precautions

Where cutting or grinding of the cured material is to occur, use adequate ventilation and dust controls. To minimize exposure, employees should wear respirator approved for silica dust. Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Use good housekeeping to avoid accumulation of dust in the work area. See also American Society for Testing and Materials (ASTM) Standard Practice E1132-99a, "Standard Practice for Health Requirements Relating to Occupational Exposure to respirable Crystalline Silica".

Section 9 – Physical and Chemical Properties

Appearance	Viscous Liquid
Color	Black
Odor	Slight, Ether-like
Odor Threshold	Not Established
pH	Not Established
Melting Point/Freezing Point	Not Established
Boiling Point	Not Established
Flash Point	>200°F (>93.33°C)
Evaporation Rate	Not Established
Upper/Lower flammability or explosive limits	Not Established
Vapor Pressure	Not Established
Vapor Density	Not Established
Relative Density	
Specific Gravity	1.16
Bulk Density (lbs./gal)	9.71
Solubility	Slightly Soluble
Partition Coefficient; n-octanol/water	Not Established
Auto-ignition temperature	Not Established
Viscosity	Not Established

Note: Physical data presented above are typical values and should not be construed as a specification.

 Section 10 – Stability and Reactivity

- 10.1 Reactivity:** Reacts with water
- 10.2 Chemical Stability:** Stable under conditions of normal temperature and pressure. Contact with water will release small amounts of flammable methanol.
- 10.3 Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.
- 10.4 Conditions to Avoid:** Heat, flames and sparks. Temperatures above 150 °C /300 °F. Incompatible materials.
- 10.5 Incompatible Materials:** Strong oxidizing agents. Acids. Amines. Caustic. Water.
- 10.6 Hazardous Decomposition Products:** Carbon oxides. Nitrogen oxides (NOx). Aldehydes. Various polymer compounds.
- 10.7 Other Hazards:** Reacts with heat release with some epoxy resins.

 Section 11 – Toxicological Information

11.1 Information on the likely routes of exposure:

Eye contact, skin contact, inhalation, ingestion

11.2 Symptoms related to the physical, chemical and toxicological characteristics:

Acute Toxicity:	Not classified
Skin Corrosion/Irritation:	Causes severe skin burns
Serious Eye Damage/Irritation:	Causes serious eye damage
Respiratory or Skin Sensitization:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	May cause damage to the nervous system by eye contact or ingestion.
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Aspiration Hazard:	Not classified

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure:**Short term exposure:**

Eye Contact:	Causes serious eye damage
Inhalation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Contact:	Causes severe skin burns. May cause an allergic skin reaction.
Ingestion:	Expected to be harmful if swallowed

Long term exposure: Not Available**Chronic effects:** Not Available**Component Data:** Information for Organo-silane (and Methanol);

Liquid or vapors can react with moisture in the eye to form methanol, an alcohol which can cause temporary or permanent blindness depending on exposure. Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

11.4 Numerical Measure of toxicity (Acute toxicity estimates)

Not Available

11.5 Carcinogenicity:

The National Toxicology Program classifies respirable crystalline silica as "known to be a human carcinogen". The International Agency for Research on Cancer has determined that crystalline silica is carcinogenic to humans (Group 1 - carcinogenic to humans).

Section 12 – Ecological Information

12.1 Ecotoxicity: Not Available

12.2 Persistence and Degradability: Not Available

12.3 Bioaccumulative Potential: Not Available

12.4 Mobility in Soil: Not Available

12.5 Other Adverse Effects: Not Available

Section 13 – Disposal Considerations

13.1 Information on waste and methods of disposal

Dispose of contents in accordance with all local, regional, national and international regulations.

Section 14 – Transportation Information

14.1 Transportation information

Land Transportation (DOT):

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (contains 2,4,6-Tris(dimethylaminomethyl)phenol)

Hazard Class: 8

Identification Number: UN 2375

Packing group: III

Marine Pollutant: No

Sea Transportation (IMDG):

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (contains 2,4,6-Tris(dimethylaminomethyl)phenol)

Hazard Class: 8

Identification Number: UN 2375

Packing group: III

Marine Pollutant: No

Air Transportation (IATA):

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (contains 2,4,6-Tris(dimethylaminomethyl)phenol)

Hazard Class: 8
Identification Number: UN 2375
Packing group: III
Marine Pollutant: No

14.2 Transportation in bulk according to Annex II of Marpol 73/78 and the IBC Code:

This product is not intended to be transported in bulk containers.

14.3 Special precautions for transportation:

No data available

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations specific for the product in question.

This regulatory information is not intended to be comprehensive. Other regulations may apply to this material. To determine applicability or effects of any law or regulation with respect to the product, user should seek legal advice or consult with the appropriate government agency. GS Polymers, Inc. does not undertake to furnish advice on regulatory matters.

United States Federal Regulations:

US EPA CERCLA Hazardous Substances (40 CFR 302):

Not Evaluated

SARA Section 311/312 Hazard Categories:

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required:

None above de minimis concentration

State Right-To-Know Information:

For details of your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Not Evaluated

California Prop. 65: This product contains the chemicals listed below, which the State of California has found to cause cancer, birth defects or reproductive harm.

Methanol < 0.2 % (reproduction)

Crystalline silica (quartz) < 0.2 % (cancer)

Section 16 – Other Information

16.1 Date of preparation or last revision:

Company: GS Polymers, Inc.
Rev Date: 6/25/2015
Rev By: BN

Reason for Change:

This revision updates SDS formatting according to OSHA Hazard Communications Standard (HCS) promulgated on March 20, 2012.

16.2 Additional information:**HMIS Ratings:**

Health:	3
Flammability:	1
Physical Hazard:	0

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of GS Polymers' product safety program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, user should seek legal advice or consult with the appropriate government agency. GS Polymers, Inc. does not undertake to furnish advice on such matters.