



Safety Data Sheet

Section 1 – Chemical Product and Company Identification

1.1 Product identifier:

Product Name: GSP 1331-1 Part A
Product Code: 1331-1A
Effective Date: 9/29/2015
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 Irritation Category 2
Eye Irritation Category 2A
Skin Sensitization Category 1
Specific Target Organ Toxicity - Single Exposure Category 3 (Respiratory Tract)

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

Signal Words: Warning

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

Precautionary Statements:

Prevention: Wear protective gloves.

Wear eye protection/face protection.
 Use only outdoors or in a well-ventilated area.
 Avoid breathing mist, vapors or spray.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water.
 Take off contaminated clothing.
 Wash contaminated clothing before reuse.
 If skin irritation occurs: Get medical attention.
 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 attention.

Storage: Store locked up.

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 known

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 – 75.0 %
Neopentyl Glycol Diglycidyl Ether	17557-23-2	1.0 – 10.0 %

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:

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:

OSHA PEL Chemical Name	CAS NO.	OSHA (ACGIH) TLV
Epoxy Resin (Diglycidyl Ether of Bis-Phenol A)	25068-38-6	Not Established
Neopentyl Glycol Diglycidyl Ether	17557-23-2	Not Established

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.

Section 9 – Physical and Chemical Properties

AppearanceLiquid
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	1.33
Bulk Density (lbs./gal)	11.07
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:** 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)

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

11.5 Carcinogenicity:

Not Available

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): Not Regulated in Non-Bulk Containers

Sea Transportation (IMDG): Not Regulated in Non-Bulk Containers

Air Transportation (IATA): Not Regulated in Non-Bulk Containers

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.

Oxirane, 2-(phenoxyethyl)-	< 1.0 %	(cancer)
Oxirane, 2-(chloromethyl)-	< 1.0 %	(cancer; reproductive)
Crystalline silica (quartz)	< 0.1 %	(cancer)
Carbon black	< 0.1 %	(cancer)

Section 16 – Other Information

16.1 Date of preparation or last revision:

Company: GS Polymers, Inc.
Rev Date: 9/29/2015
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: GSP 1331-1 Part B
Product Code: 1331-1B
Effective Date: 9/29/2015
Revision Date: -

1.2 Recommended use and restrictions on use:

Product Use: Epoxy Curative
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
Respiratory sensitization - Category 1
Skin sensitization - Category 1
Toxic to reproduction - Category 2
Specific target organ toxicity - single exposure - Category 1
Specific target organ toxicity - repeat exposure - Category 1

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 allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.
 Causes damage to organs. (eyes)
 Causes damage to organs through prolonged or repeated exposure. (skin, respiratory tract, kidneys, liver.)

Precautionary Statements:

Prevention: Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Use personal protective equipment as required.
 Wear protective gloves.
 Wear eye or face protection.
 In case of inadequate ventilation wear respiratory protection.
 Use only outdoors or in a well-ventilated area.
 Do not breathe vapor.
 Do not eat, drink or smoke when using this product.
 Wash hands thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.

Response: Get medical attention if you feel unwell.
 IF exposed: Call a POISON CENTER or physician.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or physician if you feel unwell.
 If experiencing respiratory symptoms: Call a POISON CENTER or physician.
 IF ON SKIN: Wash with plenty of soap and water.
 Take off contaminated clothing.
 Wash contaminated clothing before reuse.
 If skin irritation or rash occurs: Get medical attention.
 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 attention.

Storage: Store locked up.

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 known

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.)
Fatty acids, C18-unsatd., dimers, - reaction products with polyethylenepolyamines	68410-23-1	50.0 – 75.0 %

Triethylenetetramine

112-24-3

1.0 – 10.0 %

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. Prevent spilled material and runoff from contacting 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:

Pick up spilled material and containerize for recovery or disposal. Using adequate protective equipment, add dry material to absorb spill (if large spill, first dike to contain). For large amounts: Flush area with dilute (5%) acetic acid. Collect rinsate for disposal. Dispose of waste with a licensed waste disposal contractor.

 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:

Protect from temperatures below: 50 °F (10 °C)

Protect from temperatures above: 104 °F (40 °C)

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:**OSHA PEL****Chemical Name****CAS NO.****OSHA (ACGIH) TLV**

Fatty acids, C18-unsatd., dimers, -

reaction products with polyethylenepolyamines

68410-23-1

None

Triethylenetetramine

112-24-3

1 ppm TWA

8.2 Engineering Controls:**Ventilation:**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering

controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

Section 9 – Physical and Chemical Properties

Appearance	Viscous Liquid
Color	Light Tan
Odor	Ammoniacal
Odor Threshold	Not Established
pH	Not Established
Melting Point/Freezing Point	Not Established
Boiling Point	Not Established
Flash Point	>356°F (>180°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	1.19
Bulk Density (lbs./gal)	9.92
Solubility	Slightly soluble in water
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:	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:	Avoid exposure - obtain special instructions before use. Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible Materials:	Strong oxidizing agents,

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 epoxy resins.

Heating this substance above 300 deg. F in the presence of air may cause slow oxidative decomposition; above 500 deg. F polymerization may occur.

Section 11 – Toxicological Information

11.1 Information on the likely routes of exposure:

Inhalation, skin contact.

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

No data available

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. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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:

General: Causes damage to organs through prolonged or repeated exposure: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: Suspected of damaging the unborn child.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: Suspected of damaging fertility.

11.4 Numerical Measure of toxicity (Acute toxicity estimates)

Acute Toxicity Data:

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines

LD50 Oral Rat > 5000 mg/kg

Triethylenetetramine

LD50 Oral Rat 2500 mg/kg

11.5 Carcinogenicity:

Not Available

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):	Not Regulated in Non-Bulk Containers
Sea Transportation (IMDG):	Not Regulated in Non-Bulk Containers
Air Transportation (IATA):	Not Regulated in Non-Bulk Containers

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

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.

Crystalline silica (quartz)	< 0.1 %	(cancer)
Toluene	< 0.1%	(reproduction)

Section 16 – Other Information

16.1 Date of preparation or last revision:

Company:	GS Polymers, Inc.
Rev Date:	9/28/2015
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.