

**GATEWAY COMPOSITES | SAFETY DATA SHEET  
CARBON FIBER 2017****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Gateway Composites Carbon Fiber  
Other Names: Unidirectional fabric, woven fabric, bi-directional fabric, milled, chopped fiber Product Type: 3k, 6k, 12k, 24k, 48k, 50k  
Address: 120 East Highway A, Wentzville, MO 63385  
Telephone Number: 636-887-0637  
Emergency Telephone Number: 636-887-0637 Chemtel 800-255-3924

**2. HAZARDS IDENTIFICATION**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS contains valuable information critical to the safe handling and proper use of the product.

- 2.1 Primary Route of Exposure
  - 2.1.1 Skin Contact Fiber dust may cause irritation, itchiness or sometimes allergic dermatitis.
  - 2.1.2 Eye Contact Fiber or Fiber Dust may cause irritation or injury from scratching.
  - 2.1.3 Inhalation Dust may cause irritation. 2.1.4 Ingestion Unknown
- 2.2 Chronic Toxicity/Carcinogenicity Not Listed
- 2.3 Medical Conditions Aggravated by Exposure Not Applicable
- 2.4 Signal word: No signal word.
- 2.5 Precautionary Statement: Possible irritant to the skin, eyes, and respiratory tract when processed due to nuisance dust generation. Fiber is electrically conductive.

See Section 10 for additional information. In the supplied form the product is not explosive however, the processing and buildup of fine dust can lead to a risk of dust explosion. Warning: processing may create combustible dust concentrations in the air. No specific hazards known.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Component Concentration CAS Number Carbon Fiber (Polyacrylonitrile based) 95 ~ 100 %  
7440-44-0 Epoxy (Sizing agent) 0.5 ~ 2.0 % Trade Secret

**4. FIRST AID MEASURES**

- 4.1 Skin Wash with water and if irritation persists or allergic reaction occurs, consult a medical physician.



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- 4.2 Eye Wash with plenty of clean water and, if irritation persists, consult a medical physician.
- 4.3 Inhalation Evacuate from the dusty contaminated area and walk outside to get fresh air.
- 4.4 Ingestion Consult a medical physician.
- 4.5 Notes to Physician Fiber is inert, but it is so sharp and strong that it may cause physical injury.

## 5. FIRE-FIGHTING MEASURES

- 5.1 Flammable Properties
  - 5.1.1 Flash Point Not Applicable
  - 5.1.2 Flammable Limits
    - LFL (Lower Flush Limit) Not Applicable
    - UFL (Upper Flush Limit) Not Applicable
- 5.2 Firefighting Instruction Not Applicable

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Aquatic Toxicity Unknown
- 6.2 Steps to be Taken if Material is Released or Spilled Vacuum up and place in a waste disposal container to an approved landfill.
- 6.3 Neutralizing Chemicals Not Applicable

## 7. HANDLING AND STORAGE

- 7.1 Precautions to be taken in Handling & Storing  
Airborne fiber dust and broken filaments should be controlled as to minimize (1) Skin irritation, (2) Electrical malfunction to machinery, electronics, etc. due to fiber electrical conductivity. Maintain good housekeeping to control dust accumulations.
- 7.2 Other Precautions  
Isolate all electrical equipment in surrounding areas where fiber is handled or used. Any contact between airborne particles and filaments may cause electrical shorts on any electrical equipment.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- 8.1 Ventilation Requirements  
Local exhaust for fiber dust only
- 8.2 Personal Protective Equipment  
Eye/Face Protection Safety Goggles and Dust Mask  
Skin Protection Protective clothing (Rubber Gloves) which can cover full body  
Respiratory Protection Dust Masks



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## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Filament
Odor	Odorless
Density (g/cm <sup>3</sup> )	1.8
Color	Black
Boiling Point	N/A
Vapor Pressure	N/A
Melting Point	N/A
Solubility (%)	
Vapor Density	N/A in water Insoluble
Volatility	N/A in others N/A

## 10. PHYSICAL HAZARDS (STABILITY & REACTIVITY)

Chemical Stability	Stable
Conditions to Avoid	Strong oxidizing agents. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. The fine dust from a carbon fiber compound or composite that is cut or formed can create additional dust explosion risk depending on the resin or compounding agent. A process hazard analysis is recommended to determine what, if any, risks are present.
Incompatibilities	None
Hazardous Polymerization	Will not occur
Hazardous Decomposition Product	None

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Not determined  
 Acute dermal toxicity: Irritant  
 Acute inhalation toxicity: Irritant  
 Irritation/Corrosion:  
 Skin: Mechanical skin irritation Eyes: Not determined  
 Sensitization: Not determined  
 Sub-acute toxicity: Not determined  
 Chronic toxicity: Not determined  
 Mutagenicity: Not determined  
 Carcinogenicity: Not determined  
 Reproductive toxicity: Not determined  
 Experiences made in practice: Fiber abrasion can cause mechanical skin irritation.



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## 12. ECOLOGICAL INFORMATION

Biodegradability	Not biodegradable
Bioaccumulation	Unknown
Aqua Toxicity	Unknown

## 13. DISPOSAL CONSIDERATION

Waste Disposal Method Dispose fiber in accordance with applicable governmental non-hazardous solid waste regulations.

## 14. TRANSPORT INFORMATION

Classification according to DOT: Non Hazardous  
 Classification according to DOT: Not classified as "Dangerous Goods"  
 Classification according to DOT: Not classified as "Dangerous Goods"

## 15. REGULATORY INFORMATION

This product is not classified as a toxic chemical or hazardous material. No special warning label is required.

TSCA (US) NO CARBON FIBER 7440-44-0 EINECS NO N/A  
 WHMIS (Canada) N/A  
 CAS 7440-44-0  
 OSHA N/A  
 SARA TITLE III Sec.313 Toxic Chemicals None

## 16. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Gateway Composites LLC. It relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Gateway Composites LLC assumes no legal responsibility for use of or reliance upon this data.



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## GATEWAY COMPOSITES | SAFETY DATA SHEET

### 747 EPOXY RESIN

#### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product: Gateway Composites 747 Epoxy Resin  
 Product Code: 747 Epoxy Resin  
 HMIS Ratings: Health 2, Fire 1, Reactivity 0  
 SDS Number: SDS747ER Date Printed: 01/31/16

Gateway Composites, 120 East Highway A, Wentzville, MO 63385  
 Customer Information Center: 636-887-0637  
 Emer. # 636-887-0637 or CHEMTEL 800-255-3924

#### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Reaction product of epichlorohydrin & bisphenol A

#### SECTION 3: HAZARDS IDENTIFICATION

CAS# 025085-99-8 94%  
 Trade secret 6%  
 Colorless to slight yellow liquid. Epoxy odor. May cause allergic skin reaction.

#### POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN: Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. Has caused allergic skin reaction in humans. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: Vapors are unlikely due to physical properties.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Except for skin sensitization,



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repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

**CANCER INFORMATION:** Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen.

**TERATOLOGY (BIRTH DEFECTS):** DGEBA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

**REPRODUCTIVE EFFECTS:** In animal studies, has been shown not to interfere with reproduction.

#### SECTION 4: FIRST AID

**EYES:** Flush eyes with plenty of water.  
**SKIN:** Wash off in flowing water or shower.  
**INGESTION:** No adverse effects anticipated by this route of exposure incidental to proper industrial handling.  
**INHALATION:** No adverse effects anticipated by this route of exposure.  
**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

#### SECTION 5: FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:**  
**FLASH POINT:** 485F, 252C  
**METHOD USED:** ASTM D93, PMCC  
**AUTOIGNITION TEMPERATURE:** Not applicable  
**FLAMMABILITY LIMITS**  
**LFL:** Not applicable  
**UFL:** Not applicable



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**HAZARDOUS COMBUSTION PRODUCTS:**

Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to phenolics, carbon monoxide and carbon dioxide.

**OTHER FLAMMABILITY INFORMATION:**

Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.

**EXTINGUISHING MEDIA:**

Water fog or fine spray, carbon dioxide, dry chemical, foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Water fog, applied gently may be used as a blanket for fire extinguishment.

**FIRE FIGHTING INSTRUCTIONS:**

Keep people away. Isolate fire area and deny unnecessary entry. Do not use direct water stream. May spread fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Move container from fire area if this is possible without hazard. Fight fire from protected location or safe distance. Consider use of unmanned hose holder or monitor nozzles. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Fire water run-off, if not contained may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this MSDS.

**PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:**

Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant clothing with SCBA. This will not provide sufficient fire protection. Consider fighting fire from a remote location. For protective equipment in post-fire or non-fire clean up situations, refer to the relevant sections.



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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**PROTECT PEOPLE:** Isolate area. Clear non-emergency personnel from area.

**PROTECT THE ENVIRONMENT:** Keep out of irrigation ditches, sewers and water supplies.

**CLEANUP:** Absorb with material such as sand, or polypropylene or polyethylene fiber products. Collect in suitable and properly labeled containers. Remove residual using hot soapy water. Residual can be removed with solvent. Solvents are not recommended for cleanup unless the recommended exposure guide-lines and safe handling practices for the specific solvent are followed. Consult appropriate solvent MSDS for handling information.

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire.

**STORAGE:** Recommended pumping and storage temperature is 60C (140F).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient for most conditions.

### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION:** Use safety glasses.

**SKIN PROTECTION:** Use protective clothing impervious to this material. Selection of specific items such as faceshield, glove, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin with soap and water, and launder clothing before reuse.

**RESPIRATORY PROTECTION:** No respiratory protection should be needed.

**EXPOSURE GUIDELINE(S):** None established.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Colorless to slight yellow liquid to semi-solid.

**ODOR:** Faint epoxy odor.

**VAPOR PRESSURE:** Not applicable

**VAPOR DENSITY:** Not applicable

**BOILING POINT:** Not applicable



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SOLUBILITY IN WATER: None  
SPECIFIC GRAVITY: 1.16

## SECTION 10: STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable under recommended storage conditions. See Storage, Section 7.

**CONDITIONS TO AVOID:** Potentially violent decomposition can occur above 350C (662F). Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Avoid contact with oxidizing materials, acids and bases. Avoid unintended contact with amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide and water.

**HAZARDOUS POLYMERIZATION:** Will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build up.

## SECTION 11: TOXICOLOGICAL INFORMATION

**SKIN:** The LD50 for skin absorption in rabbits is 20,000 mg/kg.

**INGESTION:** The oral LD50 for rats is >5000 mg/kg.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Animal mutagenicity studies were negative. In vitro mutagenicity studies were negative in some in some cases and positive in others.

## SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE MOVEMENT & PARTITIONING:** Bioconcentration potential is moderate. (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000). Measured log octanol/water partition coefficient (log Pow) is 3.7-3.9. Soil organic carbon/water partition coefficient (Koc) is estimated to be 1800-4400. Henry's Law Constant (H) is estimated to be <6.94E-09 atm-m<sup>3</sup>/mole. Log octanol/water partition coefficient (log Pow) is estimated, using a structural fragment method, to be 3.84.



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**DEGRADATION & PERSISTENCE:**

Theoretical oxygen demand (ThOD) is calculated to be 2.35 p/p. In the atmospheric environment, material is estimated to have a tropospheric half-life of 1.92 hr. Biodegradation reached in Modified Zahn-Wellens/EMPA Test (OECD Test No. 302B) after 28 days: 12%. 20-Day biochemical oxygen demand (BOD20) is <2.5%.

**ECOTOXICOLOGY:**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species). Acute LC50 for SDS747ER water flea *Daphnia magna* is 1.3 mg/L. Acute LC50 for fathead minnow (*Pimephales promelas*) is 3.1mg/L. Toxicity to aquatic species occurs at concentrations greater than water solubility. Maximum acceptable toxicant concentration (MATC) in water flea *Daphnia magna* is 0.55 mg/L. Growth inhibition threshold in bacteria is > 42.6 mg C/L. Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is >100 mg/L.

**SECTION 13: DISPOSAL CONSIDERATION**

**DISPOSAL:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

GATEWAY COMPOSITES LLC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients). FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

**SECTION 14: TRANSPORT INFORMATION**

Department of Transportation Classification:	Not Hazardous
D.O.T. Proper Shipping Name:	Not Regulated
Other Requirements:	This product contains no toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA) and of 40 CFR 372.



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The information contained herein is based on the data available to us and is believed to be correct. However, Gateway Composites LLC makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Gateway Composites LLC assumes no responsibility for injury from the use of the product described herein.

## SECTION 15: REGULATORY INFORMATION

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

**U.S. REGULATIONS SARA 313 INFORMATION:** To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- This product has been classified as "an immediate health hazard" due to the potential for allergic skin reaction.

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**STATE RIGHT-TO-KNOW:** This product is not known to contain any substances subject to the disclosure requirements of

- New Jersey
- Pennsylvania

**OSHA HAZARD COMMUNICATION STANDARD:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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## CANADIAN REGULATIONS REGULATORY INFORMATION

### WHMIS INFORMATION: The Canadian Workplace Hazardous Materials

Information System (WHMIS) Classification for this product is:

D2B - skin sensitizer Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program. CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS: CAS #  
Reaction product of 025085-99-8 100%  
epichlorohydrin &  
bisphenol A

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):  
All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

### SECTION 16: Other Information

References: Not available.  
Other Special Considerations: Not available.  
Created: 10/11/2005  
Last Updated: 01/31/2016

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gateway Composites LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gateway Composites LLC has been advised of the possibility of such damages.



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## GATEWAY COMPOSITES | SAFETY DATA SHEET

### 747 EPOXY HARDENER

#### SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Gateway Composites Epoxy Hardener/Curing Agent  
 Product Code: 747 Epoxy Hardener  
 Recommended Uses: Coatings, Adhesives and Composites  
 HMIS ratings: HEALTH 3, FIRE 1 REACTIVITY 0  
 SDS Number: SDS747EH Date of Prep: 1/31/16  
 Gateway Composites LLC, 120 East Highway A, Wentzville, MO 63385  
 Product Type: Amine Polymer Mixture Information: 636-887-0637  
 24-Hr. Emergency Phone: CHEMTEL 800-255-3924 OR 636-887-0637

#### SECTION 2 -HAZARD(S) IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 Classification of the product

Acute Tox. .	4 (oral) .	Acute toxicity
Acute Tox.	4 (dermal)	Acute toxicity
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Skin Sens.	1A	Skin sensitization
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

#### Label elements

Pictogram:  
Signal Word: Danger



#### Hazard Statement:

H312	Harmful in contact with skin.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.



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**Precautionary Statements (Prevention):**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust or mist.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

**Precautionary Statements (Response):**

P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several/minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353 IF ON SKIN (or hair):	Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED:	Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331 IF SWALLOWED:	rinse mouth. Do NOT induce vomiting.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.

**Precautionary Statements (Storage):**

P405	Store locked up.
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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS****INGREDIENT WT% CAS#**

Aliphatic Amines 70-75% (Mixture is a trade secret)

Benzyl Alcohol 20-30% 100-51-6 (Mixture is a trade secret)



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## SECTION 4 - FIRST AID MEASURES

### Description of first aid measures

- General advice:** Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.
- If inhaled:** Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.
- If on skin:** Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Immediate medical attention required.
- If in eyes:** In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
- If swallowed:** Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

### Indication of any immediate medical attention and special treatment needed

Note to physician Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. Pulmonary edema prophylaxis. Medical monitoring for at least 24 hours.

## SECTION 5 - FIRE FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

### Special hazards arising from the substance or mixture

Hazards during fire-fighting: No particular hazards known.



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**Advice for fire-fighters**

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

**Environmental precautions**

This product is not regulated by RCRA.

This product is not regulated by CERCLA ('Superfund').

Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

Spills should be contained, solidified, and placed in suitable containers for disposal.

**SECTION 7: HANDLING AND STORAGE****Precautions for safe handling**

- Containers should be opened carefully in well-ventilated areas to avoid static discharge.
- Protection against fire and explosion:
- No explosion proofing necessary.

**Conditions for safe storage, including any incompatibilities**

- Segregate from acids and acid forming substances. Segregate from isocyanates. Segregate from epoxides.
- Suitable materials for containers: Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE)
- Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep tanks under inert gas.
- Keep away from sources of ignition - No smoking. Keep container tightly closed and in a cool place.
- Storage stability:                      Storage duration: 12 Months
- From the data on storage duration in this safety data sheet no agreed statement regarding the warranty of application properties can be deduced.



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## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

No occupational exposure limits known.

Advice on system design: Provide local exhaust ventilation to control vapors/mists.

### Personal protective equipment

Respiratory protection:	Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
Hand protection:	Chemical resistant protective gloves, Suitable materials, polyvinylchloride (Pylox)
Eye protection:	Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.
Body protection:	Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.
General safety and hygiene measures:	Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of vapours/mists. Wear protective clothing as necessary to prevent contact.

## SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Clear liquid
Odor:	Slight ammonia odor
Odor threshold:	NA
pH:	11.2
Melting point/freezing point:	NA
Boiling Range:	205C
Flash point	150C
Evaporation rate:	1.8
Flammability:	Product is combustable
Vapor Pressure:	.1 @25C
Vapor density:	3.72
Solubility:	1g/25ml water at 17C
Partition coefficient:	NA
Auto-ignition temperature:	NA
Decomposition Temperature:	<400C
Viscosity:	200cps

## SECTION 10 - STABILITY AND REACTIVITY

Corrosion to metals:	No corrosive effect on metal.
Oxidizing properties:	Based on its structural properties the product is not classified as oxidizing.



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Formation of flammable gases: Forms no flammable gases in the presence of water.

## SECTION 11: TOXICOLOGY INFORMATION

### Acute toxicity

Oral: Type of value: LD50  
 Species: rat  
 Value: 1,030 mg/kg  
 Inhalation: No data available.  
 Dermal: No data available. The European Union (EU) has classified this substance as 'harmful'.

### Irritation / corrosion

Skin:  
 Species: rabbit  
 Result: Corrosive.  
 Eye:  
 Species: rabbit  
 Result: Risk of serious damage to eyes.  
 Method: OECD Guideline 405  
 Sensitization:  
 Guinea pig maximization test  
 No mutagenic effects reported.  
 Experimental/calculated data: Micronucleus assay  
 No mutagenic effects reported.  
 Aspiration Hazard: No aspiration hazard expected.  
 Species: guinea pig  
 Result: sensitizing  
 Method: OECD Guideline 406  
 Genetic toxicity  
 Experimental/calculated data: Ames-test

## SECTION 12: ECOLOGICAL INFORMATION

### Fish

Acute:  
 Directive 84/449/EEC, C.1 semistatic  
 Leuciscus idus/LC50 (96 h): 110 mg/l  
 Nominal values (confirmed by concentration control analytics)  
 Chronic:  
 Study scientifically not justified.  
 Aquatic invertebrates  
 Acute:



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OECD Guideline 202, part 1 static

Daphnia magna/EC50 (48 h): 23 mg/l

Nominal values (confirmed by concentration control analytics)  
semistatic

Chaetogammarus marinus/EC50 (48 h): 388 mg/l

The details of the toxic effect relate to the nominal concentration.

Chronic:

OECD Guideline 202, part 2 semistatic Daphnia magna (NOEC) 21 d 3 mg/l

Nominal values (confirmed by concentration control analytics)

Aquatic plants

Toxicity to aquatic plants:

Directive 88/302/EEC, part C, p. 89 green algae/EC50 (72 h): > 50 mg/l

Nominal concentration.

Microorganisms

Toxicity to microorganisms:

DIN 38412 Part 8 bacterium/EC10 (18 h): 1,120 mg/l

Nominal concentration.

Degradability / Persistence

Biological / Abiological Degradation

Test method: Directive 92/69/EEC, C.4-A (aerobic),

Method of analysis: DOC reduction

Degree of elimination: 8 % (28 d)

Evaluation: Not readily biodegradable (by OECD criteria).

Hydrolysis

Test method: OECD Guideline 111

Half-life: (50 °C)

Bioaccumulation

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be

expected. Literature data.

Environmental mobility:

Transport between environmental compartments:

calculated adsorption/water - soil

KOC: 928

log KOC: 2.97

Other adverse effects:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into

treatment plants. The inhibition of the degradation activity of activated sludge is not anticipated when introduced

to biological treatment plants in appropriate low concentrations.



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**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste disposal of substance: Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

Container disposal: Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**SECTION 14: TRANSPORT INFORMATION**

DOT PROPER SHIPPING NAME: Amine UN NUMBER: UN2735

CLASS 8

PKG III DOT HAZARD CLASS: Corrosive Liquid

**DOT**

Not Regulated

**TDG**

Not Regulated

**MEX**

UN?ID# 2735

Corrosive Liquid NOS (Amines)

Class 8

PKG III

**ICAO**

UN?ID# 2735

Corrosive Liquid NOS (Amines)

Class 8

PKG III

**IATA code**

UN?ID# 2735

Corrosive Liquid NOS (Amines)

Class 8

PKG III

**IMDG Code**

UN?ID# 2735

Corrosive Liquid NOS (Amines)

Class 8

PKG III

**RID**

UN?ID# 2735

Corrosive Liquid NOS (Amines)

Class 8

PKG III



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**ADR**

UN?ID# 2735  
Corrosive Liquid NOS (Amines)  
Class 8  
PKG III

**ADN**

UN?ID# 2735  
Corrosive Liquid NOS (Amines)  
Class 8  
PKG III

24-Hr. Emergency Phone: CHEMTEL 800-255-3924 OR 636-887-0637

SARA Title III:

This product contains no toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA) and of 40 CFR 372.

**SECTION 15: REGULATORY INFORMATION**

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: Acute target organ effects reported; Corrosive to skin and/or eyes; Sensitizer

EPCRA 311/312 (Hazard categories): Acute; Chronic

**SECTION 16: OTHER INFORMATION**

HMIS RATINGS:

Health 3

Fire 1

Physical Hazard 0

Created: 10/11/2005

Last Updated: 6/1/2016

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gateway Composites LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gateway Composites LLC has been advised of the possibility of such damages.



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**GATEWAY COMPOSITES | SAFETY DATA SHEET**  
**777 EPOXY FILLER COMPOUND RESIN**

Revision Date 17-Jul-2016

**SECTION I - IDENTIFICATION**
**Product identifier**

Product Name 777 Epoxy Filler Compound Resin

**Other means of identification**

Product Code 777 Resin Synonyms None

**Recommended use of the chemical and restrictions on use**

Recommended Use Industrial Filler Compound, Adhesive or Coating

Uses advised against No information available

**Details of the supplier of the safety data sheet**

 Supplier Address Gateway Composites  
 120 East Highway A Wentzville, MO 63385

**Emergency telephone number**

Company Phone Number 636-887-0637

Emergency Telephone CHEMTEL: 800-255-3924

**SECTION 2 - HAZARDOUS IDENTIFICATION**
**Classification**
**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2A
Skin sensitization	Category 1

**Label elements**
**Emergency Overview**

Warning

**Hazard statements**

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction


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**Appearance** viscous semi-solid

**Physical state** liquid

**Odor** slight solvent

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

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 ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.

**Unknown acute toxicity**

88% of the mixture consists of ingredient(s) of unknown toxicity



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## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

### Mixture

Chemical Name	CASNo	Weight-%
Quartz*	14808-60-7	30 - 60
Bisphenol A-epichlorohydrin polymer*	25068-38-6	30 - 60
Phenol, polymer w/ formaldehyde, glycidyl ether*	28064-14-4	3 - 7
Silica, amorphous, precipitated and gel*	112926-00-8	1 - 5
Titanium oxide	13463-67-7	1 - 5

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4 - FIRST AID MEASURES

### Description of first aid measures

<b>General Advice</b>	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.



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## **Most important symptoms and effects, both acute and delayed**

### **Symptoms**

May cause redness and tearing of the eyes. May cause skin irritation. Redness.

## **Indication of any immediate medical attention and special treatment needed**

### **Note to physicians**

May cause sensitization in susceptible persons. Treat symptomatically.

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

### **Specific hazards arising from the chemical**

In the event of a fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **Explosion data**

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuated personnel to safe areas. Keep people away from and upwind of spill/leak.



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## Environmental precautions

### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

## Methods and material for containment and cleaning up

### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

### **Methods for cleaning up**

Use personal protective equipment as required. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## **SECTION 7 - HANDLING & STORAGE**

### Precautions for safe handling

#### **Advice on safe handling**

Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

#### **Incompatible material**

Strong oxidizing agents. Strong acids.  
Strong bases.



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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Silica, amorphous, precipitated and gel 112926-00-8	-	TWA: 20 mppcf (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

*NIOSH IDLH Immediately Dangerous to Life or Health*

### Appropriate engineering controls

**Engineering Controls**      Showers  
    Eyewash stations  
    Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**      Wear safety glasses with side shields (or goggles).

**Skin and body protection**      Wear protective gloves and protective clothing.

**Respiratory protection**      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**      When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.



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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	Slight solvent
<b>Appearance</b>	viscous semi-solid	<b>Odor threshold</b>	No information
<b>Color</b>	pigmented		

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
pH	No information available	
Melting point/ freezing point	No information available	
Boiling point/ boiling range	> 120°C / > 248° F	
Flash point	> 198° C / 388° F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	1.5	
Water solubility	Partially soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	Not an explosive	
Oxidizing properties	Not Applicable	

### **Other Information**

Softening point	No information available
Molecular weight	No information available
voe Content (%)	0 g/L
Density	No information available
Bulk density	No information available

## SECTION 10 - STABILITY & REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Elevated Temperature. Incompatible materials.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	No data available.
<b>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	No data available.

Chemical Name	Oral LD50	Dermal LOSO	Inhalation LCSO
Quartz 14808-60-7	= 500 mg/kg ( Rat )	-	-
Bisphenol A- epichlorohydrin polymer 25068-38-6	= 11400 mg/kg ( Rat )	-	-
Titanium dioxide 13463-67-7	= 1000 mg/kg ( Rat )	-	-



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## Information on toxicological effects

**Symptoms** May cause skin irritation. May cause an allergic skin reaction. May cause redness and tearing of the eyes.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 3	-	-
Titanium dioxide 13463-67-7	-	Group 2B	-	X

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

**Target Organ Effects** Eyes, Skin, Central nervous system, Respiratory system, lungs.

**Aspiration Hazard** No information available.



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## **Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,000.00 mg/kg

## **SECTION 12 - ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

88% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

### **Persistence and degradability**

No information available.

### **Bioaccumulation**

No information available.

### **Other Adverse Effects**

No information available.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

## **SECTION 14 - TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated



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### **IATA**

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
ERG Code	9L
Special Provisions	A97, A158, A197
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A-epichlorohydrin polymer), 9, III

### **IMDG**

UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
EmS-No	F-A, S-F
Special Provisions	274, 335
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A-epichlorohydrin polymer), 9, III

## **SECTION 15 - REGULATORY INFORMATION**

### **International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances



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## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Quartz - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen



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## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Quartz 14808-60-7	X	X	X
Silica, amorphous, precipitated and gel 112926-00-8	X	X	X
Titanium dioxide 13463-67-7	X	X	X

## U.S. EPA Label Information

EPA Pesticide Registration Number

Not Applicable

## SECTION 16 - OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

**NFPA** Health hazards 2 Flammability 1 Instability 0 Physical and Chemical Properties -

**HMIS** Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

**Issue Date** 15-Mar-2016

**Revision Date** 15-Mar-2016

### Revision Note

No information available

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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**GATEWAY COMPOSITES | SAFETY DATA SHEET**  
**777 EPOXY FILLER COMPOUND HARDENER** Revision Date 17-Jul-2016

## SECTION I - IDENTIFICATION

### Product identifier

Product Name 777 Epoxy Filler Compound Hardener

### Other means of identification

Product Code 777 Hardener Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Industrial Filler Compound, Adhesive or Coating Uses  
 advised against No information available

### Details of the supplier of the safety data sheet

Supplier Address Gateway Composites  
 120 East Highway A Wentzville, MO 63385

### Emergency telephone number

Company Phone Number 636-887-0637  
 Emergency Telephone CHEMTEL: 800-255-3924

## SECTION 2 - HAZARDOUS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

### Label elements

Danger

#### **Emergency Overview**

#### **Hazard statements**

Harmful if swallowed  
 Causes severe skin burns and eye damage May cause an allergic skin reaction



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**Appearance** viscous paste    **Physical state** liquid    **Odor** Amine

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

**Do not eat, drink or smoke when using this product**

Do not breathe dust/fume/gas/mist/vapors/spray

**Wear protective gloves/protective clothing/eye protection/face protection**

Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

**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/physician

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

**Wash contaminated clothing before reuse**

If skin irritation or rash occurs: Get medical advice/attention

**IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing**

Immediately call a POISON CENTER or doctor/physician

**IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements Disposal**

**Dispose of contents/container to an approved waste disposal plant**

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Other Information**

Harmful to aquatic life with long lasting effects.

#### **Unknown acute toxicity**

39% of the mixture consists of ingredient(s) of unknown toxicity



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## SECTION 3 - COMPOSITION INFORMATION ON INGREDIENTS

### Substance

Not applicable

### Mixture

Chemical Name	CASNo	Weight-%
Quartz*	14808-60-7	30-60
Polyamidoamine *	Proprietary	10 -30
Wollastonite (Ca(SiO <sub>3</sub> )) •	13983-17-0	10- 30
2,4,6-Tri(dimeth,,laminomethyl)phenol'	90-72-2	3-7
Trieth\Jlenetetramine *	112-24-3	1 - 5
Diethvlenetriamine *	111-40-0	1 - 5
Silica, amorphous, precipitated and gel *	112926-00-8	1 - 5

## SECTION 4 - FIRST AID MEASURES

### Description of first aid measures

#### General advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

#### Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation persists, call a physician.

#### Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

#### Ingestion

Call a physician or poison control center immediately, Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice.

#### Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.



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## **Most important symptoms and effects, both acute and delayed**

### **Symptoms**

Causes skin and eye burns.  
May result in permanent damage including blindness. May cause allergic skin reaction.  
Coughing and/ or wheezing.

## **Indication of any immediate medical attention and special treatment needed**

### **Note to physicians**

Treat symptomatically.

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

### **Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Runoff may pollute waterways.

#### **Explosion data**

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.



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## Environmental precautions

### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

## Methods and material for containment and cleaning up

### **Methods for containment**

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

### **Methods for cleaning up**

Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## **SECTION 7 - HANDLING & STORAGE**

### Precautions for safe handling

#### **Advice on safe handling**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

#### **Incompatible material**

Strong oxidizing agents. Strong acids.  
Strong bases.



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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIHTLV	OSHA PEL	NIOSH IDLH
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(30)/(%SiO <sub>2</sub> + 2) mg/m' TWA total dust (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction (10)/(%SiO <sub>2</sub> + 2) mg/m' TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Diethylenetriamine 111-40-0	TWA! 1 ppm s-	-	TWA: 1 ppm TWA:4mg/m <sup>3</sup>
Silica, amorphous, precipitated and gel 112926-00-8	.	TWA: 20 mppcf (80)/(% SiO <sub>2</sub> ) mg/m' TWA	.

#### Legend

Skin - Skin Absorber

NIOSH IDLH Immediately Dangerous to Life or Health

#### Appropriate engineering controls

**Engineering Controls**      Showers  
   Eyewash stations  
   Ventilation systems.

#### Individual protection measures. such as personal protective equipment

**Eye/face protection**      Tight sealing safety goggles.

**Skin and body protection**      Wear protective gloves and protective clothing.

**Respiratory protection**      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**      Handle in accordance with good industrial hygiene and safety practice.



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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	liquid		
Appearance	viscous paste	Odor	Amine
Color	pigmented	Odor threshold	No information available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
pH	No information available	
Melting point/ freezing point	No information available	
Boiling point/ boiling range	> 120 'C   248 'F	
Flash point	> 100 'C  212 'F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	1.5	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	Not an explosive	
Oxidizing properties	Not Applicable	
<b>Other Information</b>		
Softening point	No information available	
Molecular weight	No information available	
voe Content (%)	0 g/L	
Density	No information available	
Bulk density	No information available	

## SECTION 10 - STABILITY & REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to avoid

Elevated Temperature. Incompatible materials.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## SECTION 11 - TOXOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

#### Inhalation

May cause irritation.

#### Eye contact

Corrosive to the eyes and may cause severe damage including blindness.

#### Skin contact

May cause burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

#### Ingestion

Can burn mouth, throat, and stomach.

Chemical Name	Oral LD50	Dermal LOSO	Inhalation LCSO
Quartz 14808-60-7	= 500 mg/kg ( Rat )	-	-
2,4,6-Tri (dimethylaminomethyl) phenol 90-72-2	= 1200 mg/kg ( Rat )	= 1280 mg/kg ( Rat )	
riethylenetetramine 112-24-3	= 2500 mg/kg ( Rat )	= 550 mg/kg ( Rabbit )	-
Dlethylenetriamine 111-40-0	= 1 080 mg/kg ( Rat )	= 672 mg/kg ( Rabbit )	= 70 mg/L ( Rat ) 4 h



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## Information on toxicological effects

**Symptoms** May cause an allergic skin reaction. Causes skin burns. May cause redness and tearing of the eyes. May result in permanent damage including blindness. Coughing and/ or wheezing.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization in susceptible persons.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X
Wollastonite (Ca(SiO <sub>3</sub> )) 13983-17-0	-	Group 3	-	-
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 3	-	-

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A2 - Suspected Human Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 1 - Carcinogenic to Humans Not classifiable as a human carcinogen NTP (National Toxicology Program)*

*Known - Known Carcinogen*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Reproductive toxicity** Based on available data, the classification criteria are not met.  
**STOT - single exposure** Target Organs. Respiratory system. Eyes. Skin.  
**STOT - repeated exposure** Based on available data, the classification criteria are not met  
**Target Organ Effects** **Eyes, Respiratory system, Skin, lungs.**  
**Aspiration hazard** Based on available data, the classification criteria are not met.



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## Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	1,876.00 mg/kg
ATEmix (dermal)	6,954.00 mg/kg mg/l
ATEmix (inhalation-dust/mist)	2,135.00 mg/l

## Ecotoxicity

Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Triethylenetetramine	2.5: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 20: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 3.7: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	570: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static 495: 96 h <i>Pimephales promelas</i> mg/L LC50	31.1: 48 h <i>Daphnia magna</i> mg/L EC50
Diethylenetriamine 111-40-0	1164: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 345.6: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 592: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	248: 96 h <i>Poecilia reticulata</i> mg/L LC50 static 430: 96 h <i>Leuciscus idus</i> mg/L LC50 semi-static 1014: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static	16: 48 h <i>Daphnia magna</i> mg/L EC50 37: 24 h <i>Daphnia magna</i> mg/L EC50
Bisphenol A 80-05-7	2.5: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	3.6 - 5.4: 96 h <i>Pimephales promelas</i> mg/L LCS0 flow-through 4.0 - 5.5: 96 h <i>Pimephales promelas</i> mg/L LCS0 static 4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 9.9: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	10.2: 48 h <i>Daphnia magna</i> mg/L EC50 3.9: 48 h <i>Daphnia magna</i> mg/L EC50 9.2 - 11.4: 48 h <i>Daphnia magna</i> mg/L EC50 Static

## Persistence and degradability

No information available.

## Bioaccumulation

Chemical Name	Partition coefficient
Triethylenetetramine 112-24-3	-1.4
Diethylenetriamine 111-40-0	-1.3

## Other adverse effects

No information available



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## SECTION 13 - DISPOSABLE CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

**US EPA Waste Number** D002

Chemical Name	California Hazardous Waste Status
Diethylenetriamine 111-40-0	Toxic

### **DOT**

UN/ID no UN3066  
Proper shipping name Paint  
Hazard Class 8  
Packing Group III  
Special Provisions B52, IB3, T4, TP1, TP29  
Description UN3066, Paint, 8, III  
Emergency Response Guide Number 153

### **TOG**

UN/ID no UN3066  
Proper shipping name Paint  
Hazard Class 8  
Packing Group III  
Description UN3066, Paint, 8, III

### **IATA**

UN/ID no UN3066  
Proper shipping name Paint  
Hazard Class 8  
Packing Group III  
ERG Code BL  
Special Provisions A3,A72,A803,A192  
Description UN3066, Paint, 8, III

### **IMDG**

UN/ID no UN3066  
Proper shipping name Paint  
Hazard Class 8  
Packing Group III  
EmS-No F-A, S-B 163,223  
Special Provisions Description UN3066, Paint, 8, III



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## SECTION 15 - REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 Threshold Values%
Bisphenol A - 80-05-7	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



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## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Quartz- 14808-60-7	Carcinogen
Bisphenol A - 80-05-7	Female Reproductive

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Quartz 14808-60-7	X	X	X
Triethylenetetramine 112-24-3	X	X	X
Silica, amorphous, precipitated and gel 112926-00-8	X	X	X
Diethylenetriamine 111-40-0	X	X	X
Bisphenol A 80-05-7	X	X	X

### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable



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## SECTION 16 - OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA    Health hazards 3    Flammability    Instability 0    Physical and Chemical Properties -

HMIS    Health hazards 3    Flammability    Physical hazards 0    Personal protection X

Issue Date                      15-Mar-2016  
Revision Date                  17-Jul-2016

### **Revision Note**

No information available

### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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