

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 ₃)) • | 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, CO₂, 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 ³ respirable fraction | (30)/(%SiO ₂ + 2) mg/m' TWA total dust (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction (10)/(%SiO ₂ + 2) mg/m' TWA respirable fraction | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust |
| Diethylenetriamine 111-40-0 | TWA! 1 ppm s- | - | TWA: 1 ppm TWA:4mg/m ³ |
| Silica, amorphous, precipitated and gel 112926-00-8 | . | TWA: 20 mppcf (80)/(% SiO ₂) 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 |

| Property | Values | Remarks • Method |
|-------------------------------|--------------------------|----------------------------------|
| 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 | |
| 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

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(SiO3)) 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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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

| | |
|---|---|
| General Advice | 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. |
| Eye Contact | 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. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. |
| Inhalation | Remove to fresh air. If symptoms persist, call a physician. |
| Ingestion | 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. |
| Self-protection of the first aider | 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, CO₂, 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 ³ respirable fraction | (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust |
| Silica, amorphous, precipitated and gel 112926-00-8 | - | TWA: 20 mppcf (80)/(% SiO ₂) mg/m ³ TWA | - |
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust | IDLH: 5000 mg/m ³ |

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

| | | | |
|-----------------------|--------------------|-----------------------|----------------|
| Physical state | liquid | Odor | Slight solvent |
| Appearance | viscous semi-solid | Odor threshold | No information |
| Color | pigmented | | |

| Property | Values | Remarks • Method |
|-------------------------------|--------------------------|----------------------------------|
| 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

| | |
|---------------------|---|
| Inhalation | No data available. |
| Eye contact | Irritating to eyes. |
| Skin contact | Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| Ingestion | 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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