

Common Name: G5 EPOXY ADHESIVE - HARDENER, G5 EPOXY ADHESIVE - PART A

Manufacturer: ITW COMMERCIAL CONSTRUCTION

MSDS Revision Date: 3/4/2014

MSDS Format: GHS-US

Grainger Item Number(s): 2G582

Manufacturer Model Number(s):

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Name: G5 Epoxy Adhesive – Hardener

Intended Use of the Product

Two part Concrete Anchoring (Requires G5 Resin).

Name, Address, and Telephone of the Responsible Party

Company

ITW Commercial Construction North America
 700 High Grove Blvd
 Glendale Heights, IL 60139
 1-800-848-5611

www.itwredhead.com

Emergency Telephone Number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

| | |
|--------------------------------|------|
| Acute Tox. 4 (Oral) | H302 |
| Acute Tox. 4 (Dermal) | H312 |
| Acute Tox. 3 (Inhalation: gas) | H331 |
| Skin Corr. 1A | H314 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1 | H317 |
| Muta. 2 | H341 |
| Repr. 2 | H361 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H302+H312 - Harmful if swallowed or in contact with skin
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H331 - Toxic if inhaled
 H335 - May cause respiratory irritation
 H341 - Suspected of causing genetic defects
 H361 - Suspected of damaging fertility or the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust, vapors, gas, spray, mist.
 P264 - Wash hands and forearms thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear eye protection, face protection, protective gloves, protective clothing.

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P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment (see Section 4).
P330 - If swallowed, rinse mouth.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: This product contains Crystalline Silica dust that is mixed with a liquid to form a paste mixture, and therefore the dust is not likely to be dispersed into the air. If dust is released into the air, repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation.

Aquatic Chronic 1

H410 - Very toxic to aquatic life with long lasting effects

P273 - Avoid release to the environment



GHS09

Unknown Acute Toxicity (GHS-US)

0.1 - 10% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|---------------------------------------|---------------------|---------------------|---|
| Quartz | (CAS No) 14808-60-7 | 20 - 30 or 30 - 60 | Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 |
| Diisodecyl phthalate | (CAS No) 26761-40-0 | 15 - 40 | Aquatic Chronic 1, H410 |
| Ferric oxide black | (CAS No) 1317-61-9 | 15 - 40 | Not classified |
| 1,3-Benzenedimethanamine | (CAS No) 1477-55-0 | 5 - 10 or 10 - 18 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:gas), H330 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Bisphenol A | (CAS No) 80-05-7 | 5 - 10 or 10 - 18 | Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335 Aquatic Acute 2, H401 |
| Dimethyl silicone polymer with silica | (CAS No) 67762-90-7 | 2.2 - 14.2 | Not classified |
| 1-(2-Aminoethyl) piperazine | (CAS No) 140-31-8 | 5 - 10 or 10 - 13.2 | Flam. Liq. 4, H227 |

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| | | | |
|----------------------|---------------------|------------------|---|
| | | | Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| Nonylphenols | (CAS No) 25154-52-3 | 3 - 7 or 7 - 9 | Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Phenol | (CAS No) 108-95-2 | 0.3 - 1 or 1 - 3 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT SE 2, H371 STOT RE 2, H373 Aquatic Acute 1, H400 |
| Benzyl dimethylamine | (CAS No) 103-83-3 | 0.9 - 1 or 1 - 3 | Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |

Full text of H-phrases: see section 16

Additional information: multiple WHMIS ranges were used to reflect variation in composition.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Using proper respiratory protection, immediately move the exposed person to fresh air. Keep at rest and in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most Important Symptoms and Effects Both Acute and Delayed

General: Toxic if inhaled. Harmful in contact with skin. Harmful if swallowed. Corrosive to eyes, respiratory system and skin. May cause an allergic skin reaction.

Inhalation: Toxic if inhaled. Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

Skin Contact: Harmful in contact with skin. Corrosive. May cause an allergic skin reaction.

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility.

Suspected of damaging the unborn child. May cause heritable genetic damage. If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

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Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Can react strongly with epoxy resins at elevated temperatures.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Silicon oxides. Hydrogen chloride. Nitrogen compounds. Oxides of iron.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do NOT breathe (dust, vapor, mist, gas).

For Non-Emergency Personnel

Protective Equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency Procedures: Eliminate ignition sources. Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals.

Hygiene Measures: Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Ensure all national/local regulations are observed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Store away from other materials. Keep out of reach of children. May be stored in stainless steel containers. Store in an area having corrosion resistant concrete floor.

Incompatible Materials: Strong bases. Strong oxidizers. Acid anhydrides. Acid chlorides. Copper and its alloys.

Storage Temperature: 4.4 - 26.7 °C (40 - 80 °F). Do not store above 43.3 °C (110 °F).

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Specific End Use(s)

Two part Concrete Anchoring (Requires G5 Resin).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Quartz (14808-60-7) | | |
|---|--|---|
| Mexico | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 50 mg/m ³ |
| Alberta | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Manitoba | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 0.3 mg/m ³ (total mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 0.3 mg/m ³ (total mass) |
| Ontario | OEL TWA (mg/m ³) | 0.10 mg/m ³ (designated substances regulation) |
| Prince Edward Island | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Québec | VEMP (mg/m ³) | 0.1 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 0.05 mg/m ³ |
| Yukon | OEL TWA (mg/m ³) | 300 particle/mL |
| Diisodecyl phthalate (26761-40-0) | | |
| Ontario | OEL TWA (mg/m ³) | 5 mg/m ³ |
| 1,3-Benzenedimethanamine (1477-55-0) | | |
| Mexico | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 0.1 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 0.1 mg/m ³ |
| Alberta | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| British Columbia | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Manitoba | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| New Brunswick | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Newfoundland & Labrador | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Nova Scotia | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Nunavut | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Northwest Territories | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Ontario | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Prince Edward Island | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Québec | PLAFOND (mg/m ³) | 0.1 mg/m ³ |
| Saskatchewan | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Yukon | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Bisphenol A (80-05-7) | | |
| Yukon | OEL Ceiling (mg/m ³) | 2.8 mg/m ³ |
| Yukon | OEL Ceiling (ppm) | 0.05 ppm |
| Phenol (108-95-2) | | |
| Mexico | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Mexico | OEL TWA (ppm) | 5 ppm |
| Mexico | OEL STEL (mg/m ³) | 38 mg/m ³ |
| Mexico | OEL STEL (ppm) | 10 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 5 ppm |

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| | | |
|-------------------------|--|----------------------|
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 19 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 5 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 19 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 5 ppm |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 60 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 15.6 ppm |
| USA IDLH | US IDLH (ppm) | 250 ppm |
| Alberta | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Alberta | OEL TWA (ppm) | 5 ppm |
| British Columbia | OEL TWA (ppm) | 5 ppm |
| Manitoba | OEL TWA (ppm) | 5 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 19 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 5 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 5 ppm |
| Nova Scotia | OEL TWA (ppm) | 5 ppm |
| Nunavut | OEL STEL (mg/m ³) | 38 mg/m ³ |
| Nunavut | OEL STEL (ppm) | 10 ppm |
| Nunavut | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Nunavut | OEL TWA (ppm) | 5 ppm |
| Northwest Territories | OEL STEL (mg/m ³) | 38 mg/m ³ |
| Northwest Territories | OEL STEL (ppm) | 10 ppm |
| Northwest Territories | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Northwest Territories | OEL TWA (ppm) | 5 ppm |
| Ontario | OEL TWA (ppm) | 5 ppm |
| Prince Edward Island | OEL TWA (ppm) | 5 ppm |
| Québec | VEMP (mg/m ³) | 19 mg/m ³ |
| Québec | VEMP (ppm) | 5 ppm |
| Saskatchewan | OEL STEL (ppm) | 7.5 ppm |
| Saskatchewan | OEL TWA (ppm) | 5 ppm |
| Yukon | OEL STEL (mg/m ³) | 38 mg/m ³ |
| Yukon | OEL STEL (ppm) | 10 ppm |
| Yukon | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Yukon | OEL TWA (ppm) | 5 ppm |

Exposure Controls

Appropriate Engineering Controls: Alarm detectors should be used when toxic gases may be released. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gas mask. Protective clothing. Gloves. Safety glasses. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: A full face shield is recommended. Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid

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| | |
|--|-------------------------|
| Appearance | : Beige/Gray Paste |
| Odor | : Characteristic |
| Odor Threshold | : Not available |
| pH | : Not available |
| Relative Evaporation Rate (butylacetate=1) | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : > 100 °C (> 212 °F) |
| Flash Point | : > 100 °C (> 212 °F) |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20 °C | : Not available |
| Relative Density | : 1.2 (water = 1) |
| Density | : 1.2 g/cm ³ |
| Specific Gravity | : 1.2 |
| Solubility | : Insoluble. |
| Log Pow | : Not available |
| Log Kow | : Not available |
| Viscosity, Kinematic | : Not available |
| Viscosity, Dynamic | : Not available |
| Explosion Data – Sensitivity to Mechanical Impact | : Not available |
| Explosion Data – Sensitivity to Static Discharge | : Not available |

Other Information

VOC content : 0 g/l (Please refer to ICC-SAVE VAR-1033 for pertinent Green Building emission information).

*VOC content is calculated after the Resin and Hardener part is mixed.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Can react strongly with epoxy resins at elevated temperatures.

Chemical Stability: Stable at standard temperature and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures. Direct sunlight. Prolonged contact with metals. Incompatible materials.

Incompatible Materials: Strong oxidizers. Strong bases. Acid anhydrides. Acid chlorides. Copper and its alloys.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen compounds. Hydrogen chloride. Silicon oxides. Iron oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled.

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Suspected of causing genetic defects.

Teratogenicity: Not available

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

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Symptoms/Injuries After Inhalation: Harmful if inhaled. Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

Symptoms/Injuries After Skin Contact: Harmful in contact with skin. Corrosive. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Harmful if swallowed.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage. If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| Quartz (14808-60-7) | |
|---|---|
| LD50 Oral Rat | > 5000 mg/kg |
| Diisodecyl phthalate (26761-40-0) | |
| LD50 Oral Rat | 64 g/kg |
| LD50 Dermal Rabbit | > 3160 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 12.54 mg/l/4h |
| Ferric oxide black (1317-61-9) | |
| LD50 Oral Rat | > 10000 mg/kg |
| 1,3-Benzenedimethanamine (1477-55-0) | |
| LD50 Oral Rat | 930 mg/kg |
| LD50 Dermal Rabbit | 2 g/kg |
| LC50 Inhalation Rat (ppm) | 350 ppm/4h |
| 1-(2-Aminoethyl) piperazine (140-31-8) | |
| LD50 Oral Rat | 2140 mg/kg |
| LD50 Dermal Rabbit | 880 µl/kg |
| ATE (oral) | 500.000 mg/kg body weight |
| ATE (dermal) | 300.000 mg/kg body weight |
| Bisphenol A (80-05-7) | |
| LD50 Oral Rat | 3200 mg/kg |
| LD50 Dermal Rabbit | 3 ml/kg |
| ATE (oral) | 3200.000 mg/kg |
| ATE (dermal) | 3000.000 mg/kg |
| Phenol (108-95-2) | |
| LD50 Dermal Rabbit | 630 mg/kg |
| LC50 Inhalation Rat (mg/l) | 0.316 mg/l/4h (reported as 316 mg/m ³ /4h) |
| ATE (oral) | 100.000 mg/kg body weight |
| ATE (dermal) | 630.000 mg/kg body weight |
| ATE (gases) | 700.000 ppmV/4h |
| ATE (vapors) | 0.316 mg/l/4h |
| ATE (dust, mist) | 0.316 mg/l/4h |
| Nonylphenols (25154-52-3) | |
| LD50 Oral Rat | 580 mg/kg |
| LD50 Dermal Rabbit | 2031 mg/kg |
| Benzyl dimethylamine (103-83-3) | |
| LD50 Oral Rat | 265 mg/kg |
| LD50 Dermal Rabbit | 1660 mg/kg |
| Quartz (14808-60-7) | |
| IARC Group | 1 |

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| | |
|--|---|
| National Toxicity Program (NTP) Status | Known Human Carcinogens. |
| Phenol (108-95-2) | |
| IARC Group | 3 |
| National Toxicity Program (NTP) Status | Twelfth Report - Items under consideration. |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Very toxic to aquatic life with long lasting effects.

| | |
|--|--|
| Diisodecyl phthalate (26761-40-0) | |
| LC50 Fish 1 | > 0.55 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 1 | > 0.02 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 Other Aquatic Organisms 1 | > 500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus) |
| LC 50 Fish 2 | > 1 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Other Aquatic Organisms 2 | > 0.8 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static]) |

| | |
|---|--|
| 1-(2-Aminoethyl) piperazine (140-31-8) | |
| LC50 Fish 1 | 1950 - 2460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 32 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 495 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata) |
| LC 50 Fish 2 | > 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static]) |

| | |
|--------------------------------|--|
| Bisphenol A (80-05-7) | |
| LC50 Fish 1 | 3.6 (3.6 - 5.4) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 10.2 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 2.5 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| LC 50 Fish 2 | 4.0 - 5.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 3.9 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| | |
|--------------------------------|--|
| Phenol (108-95-2) | |
| LC50 Fish 1 | 11.9 - 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 4.24 - 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 Other Aquatic Organisms 1 | 46.42 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| LC 50 Fish 2 | 20.5 - 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 10.2 - 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 2 | 0.0188 - 0.1044 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static]) |

| | |
|----------------------------------|--|
| Nonylphenols (25154-52-3) | |
| LC50 Fish 1 | 0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 0.41 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| EC50 Daphnia 2 | 0.17 - 0.21 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 Other Aquatic Organisms 2 | 1.3 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus) |

| | |
|--|--|
| Benzyltrimethylamine (103-83-3) | |
| LC50 Fish 1 | 35.8 - 39.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

Persistence and Degradability Not available

Bioaccumulative Potential

| | |
|--|--------|
| Diisodecyl phthalate (26761-40-0) | |
| BCF fish 1 | < 14.4 |

| | |
|---|-------------------------------|
| 1-(2-Aminoethyl) piperazine (140-31-8) | |
| BCF fish 1 | (no bioaccumulation expected) |
| Log Pow | -1.48 |

| | |
|------------------------------|------------|
| Bisphenol A (80-05-7) | |
| BCF fish 1 | 5.1 - 13.8 |
| Log Pow | 2.2 |

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| | |
|----------------------------------|----------------------------------|
| Phenol (108-95-2) | |
| BCF fish 1 | (no significant bioaccumulation) |
| Log Pow | 1.47 |
| Nonylphenols (25154-52-3) | |
| BCF fish 1 | 271 |
| Log Pow | 3.28 (at 20 °C) |

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

Note: usually classified as Amines, Liquid, Corrosive, N.O.S. (UN2735) under transportation because it ships as a two component cartridge (Resin+Hardener). However, generally ships as "Limited Quantity." Maximum cartridge size is 655 mL (22 oz.).

14.1 In Accordance with DOT

Proper Shipping Name : AMINES, LIQUID, CORROSIVE, N.O.S.(Contains 1,3-Benzenedimethanamine (MXDA))
Hazard Class : 8
Identification Number : UN2735
Label Codes : 8
Packing Group : III
ERG Number : 153
Marine Pollutant : Yes



14.2 In Accordance with IMDG

Proper Shipping Name : AMINES, LIQUID, CORROSIVE, N.O.S.
Hazard Class : 8
Identification Number : UN2735
Packing Group : III
Label Codes : 8
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Marine pollutant : Yes



14.3 In Accordance with IATA

Proper Shipping Name : AMINES, LIQUID, CORROSIVE, N.O.S.
Packing Group : III
Identification Number : UN2735
Hazard Class : 8
Label Codes : 8
ERG Code (IATA) : 8L



14.4 In Accordance with TDG

Proper Shipping Name : AMINES, LIQUID, CORROSIVE, N.O.S.(Contains 1,3-Benzenedimethanamine (MXDA))
Packing Group : III
Hazard Class : 8
Identification Number : UN2735
Label Codes : 8



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|--|---------------------------------|
| G5 Epoxy Adhesive – Hardener | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

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| | |
|--|---|
| | Delayed (chronic) health hazard |
| Quartz (14808-60-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Dimethyl silicone polymer with silica (67762-90-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Diisodecyl phthalate (26761-40-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| Ferric oxide black (1317-61-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1,3-Benzenedimethanamine (1477-55-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1-(2-Aminoethyl) piperazine (140-31-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Bisphenol A (80-05-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 313 - Emission Reporting | 1.0 % |
| Phenol (108-95-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on SARA Section 302 (Specific toxic chemical listings) | |
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 302 Threshold Planning Quantity (TPQ) | ≤ 10000 |
| SARA Section 313 - Emission Reporting | 1.0 % |
| Nonylphenols (25154-52-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Benzyl dimethylamine (103-83-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| US State Regulations | |
| Quartz (14808-60-7) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Diisodecyl phthalate (26761-40-0) | |
| U.S. - California - Proposition 65 - Developmental Toxicity | WARNING: This product contains chemicals known to the State of California to cause birth defects. |
| Quartz (14808-60-7) | |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations | |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) | |
| U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts | |
| U.S. - Illinois - Toxic Air Contaminant Carcinogens | |
| U.S. - Illinois - Toxic Air Contaminants | |
| U.S. - Maine - Chemicals of High Concern | |
| U.S. - Massachusetts - Right To Know List | |
| U.S. - Michigan - Occupational Exposure Limits - TWAs | |
| U.S. - Minnesota - Chemicals of High Concern | |
| U.S. - Minnesota - Hazardous Substance List | |

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U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

Dimethyl silicone polymer with silica (67762-90-7)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Diisodecyl phthalate (26761-40-0)

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
U.S. - Maine - Chemicals of High Concern
U.S. - Minnesota - Chemicals of High Concern
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Ferric oxide black (1317-61-9)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

1,3-Benzenedimethanamine (1477-55-0)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - Ceilings
U.S. - Michigan - Occupational Exposure Limits - Skin Designations
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - Ceilings
U.S. - Minnesota - Permissible Exposure Limits - Skin Designations
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - Ceilings
U.S. - Tennessee - Occupational Exposure Limits - Skin Designations
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - Ceilings
U.S. - Vermont - Permissible Exposure Limits - Skin Designations
U.S. - Washington - Permissible Exposure Limits - Ceilings
U.S. - Washington - Permissible Exposure Limits - Skin Designations
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet

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U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

1-(2-Aminoethyl) piperazine (140-31-8)

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Bisphenol A (80-05-7)

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Minnesota - Chemicals of High Concern
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Priority Chemical Avoidance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Phenol (108-95-2)

U.S. - California - Priority Toxic Pollutants - Human Health Criteria
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Colorado - Groundwater Quality Standards
U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Water Quality Standards - Consumption of Organisms Only
U.S. - Connecticut - Water Quality Standards - Consumption of Water and Organisms
U.S. - Connecticut - Water Quality Standards - Health Designations
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Illinois - Toxic Air Contaminants
U.S. - Louisiana - Reportable Quantity List for Pollutants
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
U.S. - Maryland - Surface Water Quality Standards - Consumption of Organisms Only
U.S. - Maryland - Surface Water Quality Standards - Consumption of Water and Organisms
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)

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U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TEELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - Skin Designations
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Groundwater Health Risk Limits
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - Skin Designations
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S. - New York - Occupational Exposure Limits - Skin Designations
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Carolina - Control of Toxic Air Pollutants
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
U.S. - North Dakota - Water Quality Standards - Human Health Value for Class III
U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities
U.S. - Oregon - Permissible Exposure Limits - Skin Designations
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
U.S. - Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S. - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Aquatic Organisms Only
U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
U.S. - Tennessee - Occupational Exposure Limits - Skin Designations
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Hazardous Waste - Hazardous Constituents
U.S. - Vermont - Permissible Exposure Limits - Skin Designations
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Virginia - Water Quality Standards - Public Water Supply Effluent Limits

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U.S. - Virginia - Water Quality Standards - Surface Waters Not Used for the Public Water Supply Effluent Limits
U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List
U.S. - Washington - Dangerous Waste - Discarded Chemical Products List
U.S. - Washington - Permissible Exposure Limits - Skin Designations
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Nonylphenols (25154-52-3)

U.S. - Maine - Chemicals of High Concern
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins
U.S. - North Dakota - Water Quality Standards - Aquatic Life Acute Value for Classes I, IA, II, III
U.S. - North Dakota - Water Quality Standards - Aquatic Life Chronic Value for Classes I, IA, II, III
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water
U.S. - Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water
U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water
U.S. - Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Marine Water

Benzyl dimethylamine (103-83-3)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

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| | |
|----------------------|--|
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class E - Corrosive Material |
|----------------------|--|



Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.
Listed on the Canadian Ingredient Disclosure List

| | |
|----------------------|--|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
|----------------------|--|

Dimethyl silicone polymer with silica (67762-90-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Diisodecyl phthalate (26761-40-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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| | |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

Ferric oxide black (1317-61-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

| | |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

1,3-Benzenedimethanamine (1477-55-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

| | |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material |
|----------------------|---|

1-(2-Aminoethyl) piperazine (140-31-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

| | |
|----------------------|--|
| WHMIS Classification | Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material |
|----------------------|--|

Bisphenol A (80-05-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

| | |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

Phenol (108-95-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

| | |
|----------------------|--|
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material |
|----------------------|--|

Nonylphenols (25154-52-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

| | |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

Benzyl dimethylamine (103-83-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Revision date : 03/04/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 2 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |

G5 Epoxy Adhesive – Hardener

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| | |
|-------------------|---|
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Carc. 1A | Carcinogenicity Category 1A |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Muta. 2 | Germ cell mutagenicity Category 2 |
| Repr. 2 | Reproductive toxicity Category 2 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 2 | Specific target organ toxicity (single exposure) Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H330 | Fatal if inhaled |
| H331 | Toxic if inhaled |
| H335 | May cause respiratory irritation |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H371 | May cause damage to organs |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

Party Responsible for the Preparation of This Document

ITW Commercial Construction North America

Phone Number: +1 630-427-7067

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Name: G5 Epoxy Adhesive – Part A

Intended Use of the Product

Concrete Anchoring.

Name, Address, and Telephone of the Responsible Party

Company

ITW Commercial Construction North America

700 High Grove Blvd

Glendale Heights, IL 60139

1-800-848-5611

www.itwredhead.com

Emergency Telephone Number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary Statements (GHS-US)

: P261 - Avoid breathing vapors, dust.
P264 - Wash hands and forearms thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, face protection, protective gloves, protective clothing.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see Section 4).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: This product contains Crystalline Silica dust that is mixed with a liquid to form a paste mixture, and therefore the dust is not likely to be dispersed into the air. If dust is released into the air, repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation.

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Aquatic Chronic 2

H411 - Toxic to aquatic life with long lasting effects

P273 - Avoid release to the environment



Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|---------------------------------------|---------------------|----------------------------|---|
| Bisphenol A-epichlorohydrin polymer | (CAS No) 25068-38-6 | 50 - 70 or 70 - 80 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Quartz | (CAS No) 14808-60-7 | 5 - 10 or 10 - 30 | Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 |
| Talc | (CAS No) 14807-96-6 | 0.1 - 1 or 1 - 5 or 5 - 10 | Comb. Dust |
| Dimethyl silicone polymer with silica | (CAS No) 67762-90-7 | < 5 | Not classified |

Full text of H-phrases: see section 16

Additional information: multiple WHMIS ranges were used to reflect variation in composition.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Using proper respiratory protection, move the exposed person to fresh air at once; apply artificial respiration if needed. Encourage victim to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye Contact: Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Most Important Symptoms and Effects Both Acute and Delayed

General: Irritation to eyes, skin and respiratory tract. May cause an allergic skin reaction.

Inhalation: Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

Skin Contact: Causes severe irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: No reactivity hazard.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

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Hazardous Combustion Products: Carbon oxides (CO, CO₂). Silicon oxides. Hydrogen chloride. Nitrogen compounds.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Do NOT breathe (dust, vapor, mist, gas).

For Non-Emergency Personnel

Protective Equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency Procedures: Eliminate ignition sources. Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Ensure all national/local regulations are observed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Store away from other materials. Keep out of reach of children.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Storage Temperature: 4.4 - 26.7 °C (40 - 80 °F). Do not store above 43.3 °C (110 °F).

Specific End Use(s)

Concrete Anchoring.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Quartz (14808-60-7) | | |
|----------------------------|--------------------------------------|---|
| Mexico | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 50 mg/m ³ |
| Alberta | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Manitoba | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 0.3 mg/m ³ (total mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 0.3 mg/m ³ (total mass) |
| Ontario | OEL TWA (mg/m ³) | 0.10 mg/m ³ (designated substances regulation) |
| Prince Edward Island | OEL TWA (mg/m ³) | 0.025 mg/m ³ |
| Québec | VEMP (mg/m ³) | 0.1 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 0.05 mg/m ³ |

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| | | |
|--------------------------|--------------------------------------|--|
| Yukon | OEL TWA (mg/m ³) | 300 particle/mL |
| Talc (14807-96-6) | | |
| Mexico | OEL TWA (mg/m ³) | 2 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 2 mg/m ³ (containing no Asbestos and <1% Quartz) |
| USA IDLH | US IDLH (mg/m ³) | 1000 mg/m ³ (containing no asbestos and <1% quartz) |
| Alberta | OEL TWA (mg/m ³) | 2 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 2 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica) |
| Manitoba | OEL TWA (mg/m ³) | 2 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 6 mg/m ³ (total mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 6 mg/m ³ (total mass) |
| Ontario | OEL TWA (mg/m ³) | 2 mg/m ³ (containing no Asbestos and <1% Crystalline silica) |
| Prince Edward Island | OEL TWA (mg/m ³) | 2 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica) |
| Québec | VEMP (mg/m ³) | 3 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Yukon | OEL TWA (mg/m ³) | 20 mppcf |

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Dust formation: dust mask. Protective clothing. Gloves. Safety glasses.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|--|-------------------------|
| Physical State | : Liquid |
| Appearance | : Beige/Gray Paste |
| Odor | : Characteristic |
| Odor Threshold | : Not available |
| pH | : Not available |
| Relative Evaporation Rate (butylacetate=1) | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : > 204.4 °C (> 400 °F) |
| Flash Point | : > 100 °C (> 212 °F) |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |

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| | |
|--|-------------------------|
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20 °C | : Not available |
| Relative Density | : 1.2 (water = 1) |
| Density | : 1.2 g/cm ³ |
| Specific Gravity | : 1.2 |
| Solubility | : Insoluble. |
| Log Pow | : Not available |
| Log Kow | : Not available |
| Viscosity, Kinematic | : Not available |
| Viscosity, Dynamic | : Not available |
| Explosion Data – Sensitivity to Mechanical Impact | : Not available |
| Explosion Data – Sensitivity to Static Discharge | : Not available |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No reactivity hazard.

Chemical Stability: Stable at standard temperature and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures. Direct sunlight.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen compounds. Hydrogen chloride. Silicon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

Symptoms/Injuries After Skin Contact: Causes severe irritation. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: If dust is generated, repeated exposure through inhalation may cause cancer or lung disease.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|--|--------------------------|
| Quartz (14808-60-7) | |
| LD50 Oral Rat | > 5000 mg/kg |
| Quartz (14808-60-7) | |
| IARC Group | 1 |
| National Toxicity Program (NTP) Status | Known Human Carcinogens. |
| Talc (14807-96-6) | |
| IARC Group | 3 |

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National Toxicity Program (NTP) Status

Evidence of Carcinogenicity, Twelfth Report - Items under consideration.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

Talc (14807-96-6)

LC50 Fish 1 > 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

Bisphenol A-epichlorohydrin polymer (25068-38-6)

LOEC (acute) 1 mg/l Daphnia magna

NOEC chronic crustacea 0.3 mg/l Daphnia magna

Persistence and Degradability Not available

Bioaccumulative Potential

Talc (14807-96-6)

BCF fish 1 (no known bioaccumulation)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

Note: usually classified as Amines, Liquid, Corrosive, N.O.S. (UN2735) under transportation because it ships as a two component cartridge (Resin+Hardener). However, generally ships as "Limited Quantity." Maximum cartridge size is 655 mL (22 oz.).

14.1 In Accordance with DOT Not regulated for transport

14.2 In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Bisphenol A-epichlorohydrin polymer)

Hazard Class : 9

Identification Number : UN3082

Packing Group : III

Label Codes : 9

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Marine pollutant : Marine pollutant



14.3 In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Bisphenol A-epichlorohydrin polymer)

Packing Group : III

Identification Number : UN3082

Hazard Class : 9

Label Codes : 9

ERG Code (IATA) : 9L



14.4 In Accordance with TDG

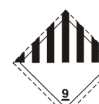
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Bisphenol A-epichlorohydrin polymer)

Packing Group : III

Hazard Class : 9

Identification Number : UN3082

Label Codes : 9



G5 Epoxy Adhesive – Part A

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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

G5 Epoxy Adhesive – Part A

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard
Delayed (chronic) health hazard

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Dimethyl silicone polymer with silica (67762-90-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Talc (14807-96-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Bisphenol A-epichlorohydrin polymer (25068-38-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Quartz (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

Quartz (14808-60-7)

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Illinois - Toxic Air Contaminants
U.S. - Maine - Chemicals of High Concern
U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

Dimethyl silicone polymer with silica (67762-90-7)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Talc (14807-96-6)

U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts
U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs

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U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - Mineral Dusts
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Bisphenol A-epichlorohydrin polymer (25068-38-6)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

G5 Epoxy Adhesive – Part A

WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects



Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.
Listed on the Canadian Ingredient Disclosure List

WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Dimethyl silicone polymer with silica (67762-90-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Talc (14807-96-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Bisphenol A-epichlorohydrin polymer (25068-38-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Revision date : 03/04/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|-------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Carc. 1A | Carcinogenicity Category 1A |

G5 Epoxy Adhesive – Part A

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| | |
|---------------|--|
| Comb. Dust | Combustible Dust |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| Comb. Dust | May form combustible dust concentrations in air |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H350 | May cause cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |

Party Responsible for the Preparation of This Document

ITW Commercial Construction North America

Phone Number: +1 630-427-7067

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS

ITW

G5 EPOXY ADHESIVE - PART A

SAFETY DATA SHEET

ACCORDING TO FEDERAL REGISTER / VOL. 77, NO. 58 / MONDAY, MARCH 26, 2012 /
RULES AND REGULATIONS

REVISION DATE: 03/04/2014

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SUPERSEDES DATE: 06/09/2010

VERSION: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE



AND OF THE COMPANY

PRODUCT IDENTIFIER:

PRODUCT NAME: G5 EPOXY ADHESIVE - PART A

INTENDED USE OF THE PRODUCT: CONCRETE ANCHORING.

NAME, ADDRESS, AND TELEPHONE OF THE RESPONSIBLE PARTY:

COMPANY:

ITW COMMERCIAL CONSTRUCTION NORTH AMERICA

700 HIGH GROVE BLVD

GLENDALE HEIGHTS, IL 60139

1-800-848-5611

WWW.ITWREDHEAD.COM

EMERGENCY TELEPHONE NUMBER:

EMERGENCY NUMBER: 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION



CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION (GHS-US):

SKIN IRRIT. 2: H315

EYE IRRIT. 2A: H319

SKIN SENS. 1: H317

LABEL ELEMENTS:

GHS-US LABELING:

HAZARD PICTOGRAMS (GHS-US):

GHS07: EXCLAMATION MARK

SIGNAL WORD (GHS-US): WARNING

HAZARD STATEMENTS (GHS-US):

H315: CAUSES SKIN IRRITATION

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H319: CAUSES SERIOUS EYE IRRITATION

PRECAUTIONARY STATEMENTS (GHS-US):

P261: AVOID BREATHING VAPORS, DUST.

P264: WASH HANDS AND FOREARMS THOROUGHLY AFTER HANDLING.

P272:

CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE.

P280:

WEAR EYE PROTECTION, FACE PROTECTION, PROTECTIVE GLOVES, PROTECTIVE CLOTHING.

P302+P352:

IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.

P305+P351+P338:

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P321: SPECIFIC TREATMENT (SEE SECTION 4).

P332+P313:

IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

P333+P313:

IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.

P337+P313:

IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.

P362+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.

P391: COLLECT SPILLAGE.

P501:

DISPOSE OF CONTENTS/CONTAINER ACCORDING TO LOCAL, REGIONAL, NATIONAL, TERRITORIAL, PROVINCIAL, AND INTERNATIONAL REGULATIONS.

OTHER HAZARDS:

OTHER HAZARDS NOT CONTRIBUTING TO THE CLASSIFICATION:

THIS PRODUCT CONTAINS CRYSTALLINE SILICA DUST THAT IS MIXED WITH A LIQUID TO FORM A PASTE MIXTURE, AND THEREFORE THE DUST IS NOT LIKELY TO BE DISPERSED INTO THE AIR. IF DUST IS RELEASED INTO THE AIR, REPEATED EXPOSURE TO RESPIRABLE (AIRBORNE) CRYSTALLINE SILICA DUST MAY CAUSE LUNG DAMAGE IN THE FORM OF SILICOSIS, LUNG CANCER, OR RESPIRATORY IRRITATION.

AQUATIC CHRONIC 2:

H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

P273: AVOID RELEASE TO THE ENVIRONMENT

GHS09: ENVIRONMENT

UNKNOWN ACUTE TOXICITY (GHS-US): NOT AVAILABLE

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS



MIXTURE:

| NAME | PRODUCT IDENTIFIER | % (W/W) | CLASSIFICATION (GHS-US) |
|-------------------|---------------------|------------|----------------------------|
| BISPHENOL | (CAS NO) 25068-38-6 | 50 - 70 OR | SKIN IRRIT. 2, H315 |
| A-EPICHLOROHYDRIN | | 70 - 80 | EYE IRRIT. 2A, H319 |
| POLYMER | | | SKIN SENS. 1, H317 |
| | | | AQUATIC CHRONIC 2, H411 |

| | | | |
|--------|---------------------|----------------------------------|--|
| QUARTZ | (CAS NO) 14808-60-7 | 5 - 10 OR 10 - 30 | CARC. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 |
| TALC | (CAS NO) 14807-96-6 | 0.1 - 1 OR 1 - 5 OR 5 - 10 | COMB. DUST |

DIMETHYL SILICONE (CAS NO) 67762-90-7 <5 NOT CLASSIFIED
POLYMER WITH
SILICA

FULL TEXT OF H-PHRASES: SEE SECTION 16

ADDITIONAL INFORMATION:

MULTIPLE WHMIS RANGES WERE USED TO REFLECT VARIATION IN COMPOSITION.

SECTION 4: FIRST AID MEASURES



DESCRIPTION OF FIRST AID MEASURES:

GENERAL:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL IF POSSIBLE).

INHALATION:

USING PROPER RESPIRATORY PROTECTION, MOVE THE EXPOSED PERSON TO FRESH AIR AT ONCE; APPLY ARTIFICIAL RESPIRATION IF NEEDED. ENCOURAGE VICTIM TO COUGH, SPIT OUT, AND BLOW NOSE TO REMOVE DUST. IMMEDIATELY CALL A POISON CENTER, PHYSICIAN, OR EMERGENCY MEDICAL SERVICE.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING. DRENCH AFFECTED AREA WITH WATER FOR AT LEAST 15 MINUTES. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

EYE CONTACT:

IMMEDIATELY RINSE WITH WATER FOR A PROLONGED PERIOD (AT LEAST 15 MINUTES) WHILE HOLDING THE EYELIDS WIDE OPEN. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

INGESTION:

RINSE MOUTH. IF SWALLOWED, DO NOT INDUCE VOMITING:
SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED:

GENERAL:

IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. MAY CAUSE AN ALLERGIC SKIN REACTION.

INHALATION:

REPEATED EXPOSURE TO RESPIRABLE (AIRBORNE) CRYSTALLINE SILICA DUST WILL CAUSE LUNG DAMAGE IN THE FORM OF SILICOSIS.

SKIN CONTACT:

CAUSES SEVERE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

INGESTION: INGESTION IS LIKELY TO BE HARMFUL OR HAVE ADVERSE EFFECTS.

CHRONIC SYMPTOMS:

IF DUST IS GENERATED, REPEATED EXPOSURE THROUGH INHALATION MAY CAUSE CANCER OR LUNG DISEASE.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.

SECTION 5: FIREFIGHTING MEASURES



EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

FIRE HAZARD: NOT FLAMMABLE.

EXPLOSION HAZARD: PRODUCT IS NOT EXPLOSIVE.

REACTIVITY: NO REACTIVITY HAZARD.

ADVICE FOR FIREFIGHTERS:

PRECAUTIONARY MEASURES FIRE:

EXERCISE CAUTION WHEN FIGHTING ANY CHEMICAL FIRE.

FIREFIGHTING INSTRUCTIONS:

USE WATER SPRAY OR FOG FOR COOLING EXPOSED CONTAINERS.

PROTECTION DURING FIREFIGHTING:

DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION.

HAZARDOUS COMBUSTION PRODUCTS:

CARBON OXIDES (CO, CO₂). SILICON OXIDES. HYDROGEN CHLORIDE. NITROGEN COMPOUNDS.

OTHER INFORMATION:

DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES.

REFERENCE TO OTHER SECTIONS:

REFER TO SECTION 9 FOR FLAMMABILITY PROPERTIES.

SECTION 6: ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

GENERAL MEASURES:

AVOID ALL CONTACT WITH SKIN, EYES, OR CLOTHING. DO NOT BREATHE (DUST, VAPOR, MIST, GAS).

FOR NON-EMERGENCY PERSONNEL:

PROTECTIVE EQUIPMENT:

USE RECOMMENDED RESPIRATORY PROTECTION. WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

EMERGENCY PROCEDURES:

ELIMINATE IGNITION SOURCES. EVACUATE UNNECESSARY PERSONNEL.

FOR EMERGENCY PERSONNEL:

PROTECTIVE EQUIPMENT:

USE RECOMMENDED RESPIRATORY PROTECTION. WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

EMERGENCY PROCEDURES: STOP LEAK IF SAFE TO DO SO. VENTILATE AREA.

ENVIRONMENTAL PRECAUTIONS:

DO NOT ALLOW TO ENTER DRAINS OR WATER COURSES. NOTIFY AUTHORITIES IF LIQUID ENTERS SEWERS OR PUBLIC WATERS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

FOR CONTAINMENT:

ABSORB AND/OR CONTAIN SPILL WITH INERT MATERIAL, THEN PLACE IN SUITABLE CONTAINER.

METHODS FOR CLEANING UP:

CLEAR UP SPILLS IMMEDIATELY AND DISPOSE OF WASTE SAFELY.

REFERENCE TO OTHER SECTIONS:

SEE HEADING 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

SECTION 7: HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

HYGIENE MEASURES:

DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PROCEDURES. WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING AND AGAIN WHEN LEAVING WORK. WASH CONTAMINATED CLOTHING BEFORE REUSE.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

TECHNICAL MEASURES: ENSURE ALL NATIONAL/LOCAL REGULATIONS ARE OBSERVED.

STORAGE CONDITIONS:

STORE IN A DRY, COOL AND WELL-VENTILATED PLACE. STORE AWAY FROM OTHER MATERIALS. KEEP OUT OF REACH OF CHILDREN.

INCOMPATIBLE MATERIALS: STRONG ACIDS, STRONG BASES, STRONG OXIDIZERS.

STORAGE TEMPERATURE:

4.4 - 26.7 DEG. C (40 - 80 DEG. F). DO NOT STORE ABOVE 43.3 DEG. C (110 DEG. F).

SPECIFIC END USE(S): CONCRETE ANCHORING.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



CONTROL PARAMETERS:

QUARTZ (14808-60-7):

MEXICO:

OEL TWA (MG/M3): 0.1 MG/M3

USA ACGIH:

ACGIH TWA (MG/M3): 0.025 MG/M3

USA NIOSH:

NIOSH REL (TWA) (MG/M3): 0.05 MG/M3

USA IDLH:

US IDLH (MG/M3): 50 MG/M3

ALBERTA:

OEL TWA (MG/M3): 0.025 MG/M3

BRITISH COLUMBIA:

OEL TWA (MG/M3): 0.025 MG/M3

MANITOBA:

OEL TWA (MG/M3): 0.025 MG/M3

NEW BRUNSWICK:

OEL TWA (MG/M3): 0.1 MG/M3

NEWFOUNDLAND & LABRADOR:

OEL TWA (MG/M3): 0.025 MG/M3

NOVA SCOTIA:

OEL TWA (MG/M3): 0.025 MG/M3

NUNAVUT:

OEL TWA (MG/M3): 0.3 MG/M3 (TOTAL MASS)

NORTHWEST TERRITORIES:

OEL TWA (MG/M3): 0.3 MG/M3 (TOTAL MASS)

ONTARIO:

OEL TWA (MG/M3): 0.10 MG/M3 (DESIGNATED SUBSTANCES REGULATION)

PRINCE EDWARD ISLAND:

OEL TWA (MG/M3): 0.025 MG/M3

QUEBEC:

VEMP (MG/M3): 0.1 MG/M3

SASKATCHEWAN:

OEL TWA (MG/M3): 0.05 MG/M3

YUKON:

OEL TWA (MG/M3): 300 PARTICLE/ML

TALC (14807-96-6):

MEXICO:

OEL TWA (MG/M3): 2 MG/M3

USA ACGIH:

ACGIH TWA (MG/M3): 2 MG/M3

USA NIOSH:

NIOSH REL (TWA) (MG/M3): 2 MG/M3 (CONTAINING NO ASBESTOS AND <1% QUARTZ)

USA IDLH:

US IDLH (MG/M3): 1000 MG/M3 (CONTAINING NO ASBESTOS AND <1% QUARTZ)

ALBERTA:

OEL TWA (MG/M3): 2 MG/M3

BRITISH COLUMBIA:

OEL TWA (MG/M3):
2 MG/M3 (PARTICULATE MATTER CONTAINING NO ASBESTOS AND <1% CRYSTALLINE SILICA)

MANITOBA:

OEL TWA (MG/M3): 2 MG/M3

NEW BRUNSWICK:

OEL TWA (MG/M3): 2 MG/M3

NEWFOUNDLAND & LABRADOR:

OEL TWA (MG/M3): 2 MG/M3

NOVA SCOTIA:

OEL TWA (MG/M3): 2 MG/M3

NUNAVUT:

OEL TWA (MG/M3): 6 MG/M3 (TOTAL MASS)

NORTHWEST TERRITORIES:

OEL TWA (MG/M3): 6 MG/M3 (TOTAL MASS)

ONTARIO:

OEL TWA (MG/M3):

2 MG/M3 (CONTAINING NO ASBESTOS AND <1% CRYSTALLINE SILICA)

PRINCE EDWARD ISLAND:

OEL TWA (MG/M3):

2 MG/M3 (PARTICULATE MATTER CONTAINING NO ASBESTOS AND <1% CRYSTALLINE SILICA)

QUEBEC:

VEMP (MG/M3): 3 MG/M3

SASKATCHEWAN:

OEL TWA (MG/M3): 2 MG/M3

YUKON:

OEL TWA (MG/M3): 20 MPPCF

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS:

ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS. EMERGENCY EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE. ENSURE ALL NATIONAL/LOCAL REGULATIONS ARE OBSERVED.

PERSONAL PROTECTIVE EQUIPMENT:

DUST FORMATION:

DUST MASK.

PROTECTIVE CLOTHING.

GLOVES.

SAFETY GLASSES.

MATERIALS FOR PROTECTIVE CLOTHING:

CHEMICALLY RESISTANT MATERIALS AND FABRICS.

HAND PROTECTION: WEAR CHEMICALLY RESISTANT PROTECTIVE GLOVES.

EYE PROTECTION: CHEMICAL GOGGLES OR SAFETY GLASSES.

SKIN AND BODY PROTECTION: WEAR SUITABLE PROTECTIVE CLOTHING.

RESPIRATORY PROTECTION:

USE A NIOSH-APPROVED RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS
WHENEVER EXPOSURE MAY EXCEED ESTABLISHED OCCUPATIONAL EXPOSURE LIMITS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: BEIGE/GRAY PASTE

ODOR: CHARACTERISTIC

ODOR THRESHOLD: NOT AVAILABLE

PH: NOT AVAILABLE

RELATIVE EVAPORATION RATE (BUTYLACETATE=1): NOT AVAILABLE

MELTING POINT: NOT AVAILABLE

FREEZING POINT: NOT AVAILABLE

BOILING POINT: >204.4 DEG. C (>400 DEG. F)

FLASH POINT: >100 DEG. C (>212 DEG. F)

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE

DECOMPOSITION TEMPERATURE: NOT AVAILABLE

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE

LOWER FLAMMABLE LIMIT: NOT AVAILABLE

UPPER FLAMMABLE LIMIT: NOT AVAILABLE

VAPOR PRESSURE: NOT AVAILABLE

RELATIVE VAPOR DENSITY AT 20 DEG. C: NOT AVAILABLE

RELATIVE DENSITY: 1.2 (WATER = 1)

DENSITY: 1.2 G/CM³

SPECIFIC GRAVITY: 1.2

SOLUBILITY: INSOLUBLE.

LOG POW: NOT AVAILABLE

LOG KOW: NOT AVAILABLE

VISCOSITY, KINEMATIC: NOT AVAILABLE

VISCOSITY, DYNAMIC: NOT AVAILABLE

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY



REACTIVITY: NO REACTIVITY HAZARD.

CHEMICAL STABILITY: STABLE AT STANDARD TEMPERATURE AND PRESSURE.

POSSIBILITY OF HAZARDOUS REACTIONS:
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO AVOID: EXTREMELY HIGH OR LOW TEMPERATURES. DIRECT SUNLIGHT.

INCOMPATIBLE MATERIALS: STRONG ACIDS, STRONG BASES, STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON OXIDES (CO, CO2). NITROGEN COMPOUNDS. HYDROGEN CHLORIDE. SILICON OXIDES.

SECTION 11: TOXICOLOGICAL INFORMATION



INFORMATION ON TOXICOLOGICAL EFFECTS - PRODUCT:

ACUTE TOXICITY: NOT CLASSIFIED

LD50 AND LC50 DATA: NOT AVAILABLE

SKIN CORROSION/IRRITATION: CAUSES SKIN IRRITATION.

SERIOUS EYE DAMAGE/IRRITATION: CAUSES SERIOUS EYE IRRITATION.

RESPIRATORY OR SKIN SENSITIZATION: MAY CAUSE AN ALLERGIC SKIN REACTION

GERM CELL MUTAGENICITY: NOT CLASSIFIED

TERATOGENICITY: NOT AVAILABLE

CARCINOGENICITY: NOT CLASSIFIED.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): NOT CLASSIFIED

REPRODUCTIVE TOXICITY: NOT CLASSIFIED

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): NOT CLASSIFIED.

ASPIRATION HAZARD: NOT CLASSIFIED

SYMPTOMS/INJURIES AFTER INHALATION:
REPEATED EXPOSURE TO RESPIRABLE (AIRBORNE) CRYSTALLINE SILICA DUST WILL CAUSE LUNG DAMAGE IN THE FORM OF SILICOSIS.

SYMPTOMS/INJURIES AFTER SKIN CONTACT:
CAUSES SEVERE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

SYMPTOMS/INJURIES AFTER EYE CONTACT: CAUSES SERIOUS EYE IRRITATION.

SYMPTOMS/INJURIES AFTER INGESTION:
INGESTION IS LIKELY TO BE HARMFUL OR HAVE ADVERSE EFFECTS.

CHRONIC SYMPTOMS:
IF DUST IS GENERATED, REPEATED EXPOSURE THROUGH INHALATION MAY CAUSE CANCER OR LUNG DISEASE.

INFORMATION ON TOXICOLOGICAL EFFECTS - INGREDIENT(S):

LD50 AND LC50 DATA:

QUARTZ (14808-60-7):

LD50 ORAL RAT: >5000 MG/KG

QUARTZ (14808-60-7):

IARC GROUP: 1

NATIONAL TOXICITY PROGRAM (NTP) STATUS: KNOWN HUMAN CARCINOGENS.

TALC (14807-96-6):

IARC GROUP: 3

NATIONAL TOXICITY PROGRAM (NTP) STATUS:

EVIDENCE OF CARCINOGENICITY, TWELFTH REPORT - ITEMS UNDER CONSIDERATION.

SECTION 12: ECOLOGICAL INFORMATION



TOXICITY:

ECOLOGY - GENERAL: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

TALC (14807-96-6):

LC50 FISH 1:

>100 G/L (EXPOSURE TIME: 96 H - SPECIES: BRACHYDANIO RERIO [SEMI-STATIC])

BISPHENOL A-EPICHLOROHYDRIN POLYMER (25068-38-6):

LOEC (ACUTE): 1 MG/L DAPHNIA MAGNA

NOEC CHRONIC CRUSTACEA: 0.3 MG/L DAPHNIA MAGNA

PERSISTENCE AND DEGRADABILITY: NOT AVAILABLE

BIOACCUMULATIVE POTENTIAL:

TALC (14807-96-6):

BCF FISH 1: (NO KNOWN BIOACCUMULATION)

MOBILITY IN SOIL: NOT AVAILABLE

OTHER ADVERSE EFFECTS:

OTHER INFORMATION: AVOID RELEASE TO THE ENVIRONMENT.

SECTION 13: DISPOSAL CONSIDERATIONS



WASTE DISPOSAL RECOMMENDATIONS:

DISPOSE OF WASTE MATERIAL IN ACCORDANCE WITH ALL LOCAL, REGIONAL, NATIONAL, PROVINCIAL, TERRITORIAL AND INTERNATIONAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION



NOTE:

USUALLY CLASSIFIED AS AMINES, LIQUID, CORROSIVE, N.O.S. (UN2735) UNDER TRANSPORTATION BECAUSE IT SHIPS AS A TWO COMPONENT CARTRIDGE (RESIN+HARDENER). HOWEVER, GENERALLY SHIPS AS "LIMITED QUANTITY." MAXIMUM CARTRIDGE SIZE IS 655 ML (22 OZ.).

14.1 IN ACCORDANCE WITH DOT: NOT REGULATED FOR TRANSPORT

14.2 IN ACCORDANCE WITH IMDG:

PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL

A-EPICHLOROHYDRIN POLYMER)

HAZARD CLASS: 9

IDENTIFICATION NUMBER: UN3082

PACKING GROUP: III

LABEL CODES: 9

EMS-NO. (FIRE): F-A

EMS-NO. (SPILLAGE): S-F

MARINE POLLUTANT: MARINE POLLUTANT

CLASS 9 - MISCELLANEOUS

14.3 IN ACCORDANCE WITH IATA:

PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL A-EPICHLOROHYDRIN POLYMER)

PACKING GROUP: III

IDENTIFICATION NUMBER: UN3082

HAZARD CLASS: 9

LABEL CODES: 9

ERG CODE (IATA): 9L

CLASS 9, CLASS/DIVISION 9 PACKING GROUP III

14.4 IN ACCORDANCE WITH TDG:

PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL A-EPICHLOROHYDRIN POLYMER)

PACKING GROUP: III

HAZARD CLASS: 9

IDENTIFICATION NUMBER: UN3082

LABEL CODES: 9

CLASS 9, MISCELLANEOUS PRODUCTS, SUBSTANCES, OR ORGANISMS

SECTION 15: REGULATORY INFORMATION



US FEDERAL REGULATIONS:

G5 EPOXY ADHESIVE - PART A:

SARA SECTION 311/312 HAZARD CLASSES:

IMMEDIATE (ACUTE) HEALTH HAZARD

DELAYED (CHRONIC) HEALTH HAZARD

QUARTZ (14808-60-7):

LISTED ON THE UNITED STATES TSCA (TOXIC SUBSTANCES CONTROL ACT) INVENTORY

DIMETHYL SILICONE POLYMER WITH SILICA (67762-90-7):

LISTED ON THE UNITED STATES TSCA (TOXIC SUBSTANCES CONTROL ACT) INVENTORY

TALC (14807-96-6):

LISTED ON THE UNITED STATES TSCA (TOXIC SUBSTANCES CONTROL ACT) INVENTORY

BISPHENOL A-EPICHLOROHYDRIN POLYMER (25068-38-6):

LISTED ON THE UNITED STATES TSCA (TOXIC SUBSTANCES CONTROL ACT) INVENTORY

US STATE REGULATIONS:

QUARTZ (14808-60-7):

U.S. - CALIFORNIA - PROPOSITION 65 - CARCINOGENS LIST:

WARNING:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

QUARTZ (14808-60-7):

U.S. - IDAHO:

NON-CARCINOGENIC TOXIC AIR POLLUTANTS - ACCEPTABLE AMBIENT CONCENTRATIONS

U.S. - IDAHO:

NON-CARCINOGENIC TOXIC AIR POLLUTANTS - EMISSION LEVELS (ELS)

U.S. - IDAHO: OCCUPATIONAL EXPOSURE LIMITS - MINERAL DUSTS

U.S. - ILLINOIS: TOXIC AIR CONTAMINANT CARCINOGENS

U.S. - ILLINOIS: TOXIC AIR CONTAMINANTS

U.S. - MAINE: CHEMICALS OF HIGH CONCERN

U.S. - MASSACHUSETTS: RIGHT TO KNOW LIST

U.S. - MICHIGAN: OCCUPATIONAL EXPOSURE LIMITS - TWAS

U.S. - MINNESOTA: CHEMICALS OF HIGH CONCERN

U.S. - MINNESOTA: HAZARDOUS SUBSTANCE LIST

U.S. - MINNESOTA: PERMISSIBLE EXPOSURE LIMITS - TWAS

U.S. - NEW HAMPSHIRE:

REGULATED TOXIC AIR POLLUTANTS - AMBIENT AIR LEVELS (AALS) - 24-HOUR

U.S. - NEW HAMPSHIRE:

REGULATED TOXIC AIR POLLUTANTS - AMBIENT AIR LEVELS (AALS) - ANNUAL

U.S. - NEW JERSEY: RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST

U.S. - NEW JERSEY: SPECIAL HEALTH HAZARDS SUBSTANCES LIST

U.S. - OREGON: PERMISSIBLE EXPOSURE LIMITS - MINERAL DUSTS

U.S. - PENNSYLVANIA: RTK (RIGHT TO KNOW) LIST

U.S. - TENNESSEE: OCCUPATIONAL EXPOSURE LIMITS - TWAS

U.S. - TEXAS: EFFECTS SCREENING LEVELS - LONG TERM

U.S. - TEXAS: EFFECTS SCREENING LEVELS - SHORT TERM

U.S. - VERMONT - PERMISSIBLE EXPOSURE LIMITS - TWAS

U.S. - WASHINGTON: PERMISSIBLE EXPOSURE LIMITS - STELS

U.S. - WASHINGTON: PERMISSIBLE EXPOSURE LIMITS - TWAS

DIMETHYL SILICONE POLYMER WITH SILICA (67762-90-7):

U.S. - TEXAS: EFFECTS SCREENING LEVELS - LONG TERM

U.S. - TEXAS: EFFECTS SCREENING LEVELS - SHORT TERM

TALC (14807-96-6):

U.S. - IDAHO: OCCUPATIONAL EXPOSURE LIMITS - MINERAL DUSTS

U.S. - MASSACHUSETTS: RIGHT TO KNOW LIST

U.S. - MICHIGAN: OCCUPATIONAL EXPOSURE LIMITS - TWAS

U.S. - MINNESOTA: HAZARDOUS SUBSTANCE LIST

U.S. - MINNESOTA: PERMISSIBLE EXPOSURE LIMITS - TWAS

U.S. - NEW HAMPSHIRE:
REGULATED TOXIC AIR POLLUTANTS - AMBIENT AIR LEVELS (AALS) - 24-HOUR

U.S. - NEW HAMPSHIRE:
REGULATED TOXIC AIR POLLUTANTS - AMBIENT AIR LEVELS (AALS) - ANNUAL

U.S. - NEW JERSEY: RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST

U.S. - NEW JERSEY: SPECIAL HEALTH HAZARDS SUBSTANCES LIST

U.S. - NEW YORK: OCCUPATIONAL EXPOSURE LIMITS - MINERAL DUSTS

U.S. - NORTH DAKOTA: AIR POLLUTANTS - GUIDELINE CONCENTRATIONS - 8-HOUR

U.S. - OREGON: PERMISSIBLE EXPOSURE LIMITS - MINERAL DUSTS

U.S. - PENNSYLVANIA: RTK (RIGHT TO KNOW) LIST

U.S. - TENNESSEE: OCCUPATIONAL EXPOSURE LIMITS - TWAS

U.S. - TEXAS: EFFECTS SCREENING LEVELS - LONG TERM

U.S. - TEXAS: EFFECTS SCREENING LEVELS - SHORT TERM

U.S. - VERMONT: PERMISSIBLE EXPOSURE LIMITS - STELS

U.S. - VERMONT: PERMISSIBLE EXPOSURE LIMITS - TWAS

U.S. - WASHINGTON: PERMISSIBLE EXPOSURE LIMITS - STELS

U.S. - WASHINGTON: PERMISSIBLE EXPOSURE LIMITS - TWAS

U.S. - WISCONSIN:
HAZARDOUS AIR CONTAMINANTS - ALL SOURCES - EMISSIONS FROM STACK HEIGHTS
25 FEET TO LESS THAN 40 FEET

U.S. - WISCONSIN:
HAZARDOUS AIR CONTAMINANTS - ALL SOURCES - EMISSIONS FROM STACK HEIGHTS
40 FEET TO LESS THAN 75 FEET

U.S. - WISCONSIN:
HAZARDOUS AIR CONTAMINANTS - ALL SOURCES - EMISSIONS FROM STACK HEIGHTS
75 FEET OR GREATER

U.S. - WISCONSIN:
HAZARDOUS AIR CONTAMINANTS - ALL SOURCES - EMISSIONS FROM STACK HEIGHTS
LESS THAN 25 FEET

BISPHENOL A-EPICHLOROHYDRIN POLYMER (25068-38-6):

U.S. - TEXAS: EFFECTS SCREENING LEVELS - LONG TERM

U.S. - TEXAS: EFFECTS SCREENING LEVELS - SHORT TERM

CANADIAN REGULATIONS:

G5 EPOXY ADHESIVE - PART A:

WHMIS CLASSIFICATION:

CLASS D DIVISION 2 SUBDIVISION B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

QUARTZ (14808-60-7):

LISTED ON THE CANADIAN DSL (DOMESTIC SUBSTANCES LIST) INVENTORY.

LISTED ON THE CANADIAN INGREDIENT DISCLOSURE LIST

WHMIS CLASSIFICATION:

CLASS D DIVISION 2 SUBDIVISION A - VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

DIMETHYL SILICONE POLYMER WITH SILICA (67762-90-7):

LISTED ON THE CANADIAN DSL (DOMESTIC SUBSTANCES LIST) INVENTORY.

TALC (14807-96-6):

LISTED ON THE CANADIAN DSL (DOMESTIC SUBSTANCES LIST) INVENTORY.

WHMIS CLASSIFICATION:

CLASS D DIVISION 2 SUBDIVISION A - VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

BISPHENOL A-EPICHLOROHYDRIN POLYMER (25068-38-6):

LISTED ON THE CANADIAN DSL (DOMESTIC SUBSTANCES LIST) INVENTORY.

WHMIS CLASSIFICATION:

CLASS D DIVISION 2 SUBDIVISION B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY CPR.

SECTION 16: OTHER INFORMATION



REVISION DATE: 03/04/2014

OTHER INFORMATION:

THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SDS REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

GHS FULL TEXT PHRASES:

AQUATIC CHRONIC 2:

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD CATEGORY 2

CARC. 1A: CARCINOGENICITY CATEGORY 1A

COMB. DUST: COMBUSTIBLE DUST

EYE IRRIT. 2A: SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 2A

SKIN IRRIT. 2: SKIN CORROSION/IRRITATION CATEGORY 2

SKIN SENS. 1: SKIN SENSITIZATION CATEGORY 1

STOT RE 1: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) CATEGORY 1

STOT SE 3: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) CATEGORY 3

COMB. DUST: MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR

H315: CAUSES SKIN IRRITATION

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H319: CAUSES SERIOUS EYE IRRITATION

H335: MAY CAUSE RESPIRATORY IRRITATION

H350: MAY CAUSE CANCER

H372: CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE

H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PARTY RESPONSIBLE FOR THE PREPARATION OF THIS DOCUMENT:

ITW COMMERCIAL CONSTRUCTION NORTH AMERICA

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THIS INFORMATION IS BASED ON OUR CURRENT KNOWLEDGE AND IS INTENDED TO DESCRIBE THE PRODUCT FOR THE PURPOSES OF HEALTH, SAFETY AND ENVIRONMENTAL REQUIREMENTS ONLY. IT SHOULD NOT THEREFORE BE CONSTRUED AS GUARANTEEING ANY SPECIFIC PROPERTY OF THE PRODUCT.

NORTH AMERICA GHS US 2012 & WHMIS

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