Safety Data Sheet

 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Revision Date: 03/04/2014
 Date of issue: 03/04/2014
 Supersedes Date: 06/09/2010

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 Substa	ince 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)		
	GH505 GH506 GH507 GH508	
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 (G	HS-US) : P201 - Obtain special instructions before use.	
	P202 - Do not handle until all safety precautions have been read and understood	ł.
	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 clothin	∩g.
02/04/2014	EN (English LIS)	

Version: 1.0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Mixtura

Other Hazards Not Contributing to the Classification: This product contains Crystilline 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



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

<u>Mixture</u> 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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

			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
Benzyldimethylamine	(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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 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. 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).

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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/m³)	0.1 mg/m ³
USA ACGIH	ACGIH TWA (mg/m³)	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/m³)	0.025 mg/m ³
British Columbia	OEL TWA (mg/m³)	0.025 mg/m ³
Manitoba	OEL TWA (mg/m³)	0.025 mg/m ³
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m ³
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m ³
Nunavut	OEL TWA (mg/m³)	0.3 mg/m ³ (total mass)
Northwest Territories	OEL TWA (mg/m³)	0.3 mg/m ³ (total mass)
Ontario	OEL TWA (mg/m³)	0.10 mg/m ³ (designated substances regulation)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m ³
Québec	VEMP (mg/m ³)	0.1 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m ³
Yukon	OEL TWA (mg/m³)	300 particle/mL
Diisodecyl phthalate (26761	-40-0)	
Ontario	OEL TWA (mg/m³)	5 mg/m ³
1,3-Benzenedimethanamine	e (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/m³)	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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

USA OSHA	OSHA PEL (TWA) (mg/m³)	19 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	5 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	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/m³)	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/m³)	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/m³)	38 mg/m ³
Nunavut	OEL STEL (ppm)	10 ppm
Nunavut	OEL TWA (mg/m³)	19 mg/m ³
Nunavut	OEL TWA (ppm)	5 ppm
Northwest Territories	OEL STEL (mg/m³)	38 mg/m ³
Northwest Territories	OEL STEL (ppm)	10 ppm
Northwest Territories	OEL TWA (mg/m³)	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/m³)	19 mg/m ³
Yukon	OEL TWA (ppm)	5 ppm
Fundatura Controla		

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Appearance	:	Beige/Gray Paste
Odor	:	Characteristic
Odor Threshold	:	Not available
рН	:	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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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/I)	0.316 mg/l/4h (reported as 316 mg/m3/4h)
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
Benzyldimethylamine (103-83-3)	
LD50 Oral Rat	265 mg/kg
LD50 Dermal Rabbit	1660 mg/kg
Quartz (14808-60-7)	
IARC Group	1
03/04/2014 EN (Engl	ish US) 8/1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

Leology demeran very toxie to aqu	
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 (140-3	1-8)
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)
Benzyldimethylamine (103-83-3)	
LC50 Fish 1	35.8 - 39.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Persistence and Degradability N	ot available
Bioaccumulative Potential	
Diisodecyl phthalate (26761-40-0)	
BCF fish 1	< 14.4
1-(2-Aminoethyl) piperazine (140-3	1-8)
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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	0. 58 / Monday, March 26, 2012 / Rules and Regulations
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	se to the environment.
SECTION 13: DISPOSAL CO	NSIDERATIONS
-	ions: Dispose of waste material in accordance with all local, regional, national, provincial, territorial
and international regulations.	
SECTION 14: TRANSPORT	
	nes, Liquid, Corrosive, N.O.S. (UN2735) under transportation because it ships as a two component
- · · · ·	wever, generally ships as "Limited Quantity." Maximum cartridge size is 655 mL (22 oz.).
14.1 In Accordance with DO	-
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	: 111
ERG Number	: 153
Marine Pollutant	: Yes
14.2 In Accordance with IME)G
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 IAT	
Proper Shipping Name	: AMINES, LIQUID, CORROSIVE, N.O.S.
Packing Group	: III
Identification Number	: UN2735
Hazard Class	
Label Codes	
ERG Code (IATA)	: 8L
14.4 In Accordance with TDC	
Proper Shipping Name	: AMINES, LIQUID, CORROSIVE, N.O.S.(Contains 1,3-Benzenedimethanamine (MXDA))
Packing Group	
Hazard Class	: 8
Identification Number	: UN2735
Label Codes	: 8
SECTION 15: REGULATOR	INFORMATION
US Federal Regulations	

G5 Epoxy Adhesive – Hardener

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	nic) health hazard
Quartz (14808-60-7)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
Dimethyl silicone polymer with silica (67762-90-7)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
Diisodecyl phthalate (26761-40-0)	
Listed on the United States TSCA (Toxic Substances Conti	rol Act) inventory
EPA TSCA Regulatory Flag T - T - indicate	es 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 Cont	rol Act) inventory
1,3-Benzenedimethanamine (1477-55-0)	
Listed on the United States TSCA (Toxic Substances Conti	rol Act) inventory
1-(2-Aminoethyl) piperazine (140-31-8)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
Bisphenol A (80-05-7) Listed on the United States TSCA (Toxic Substances Contr	rol Act) inventory
Listed on the United States ISCA (Toxic Substances Contr Listed on SARA Section 313 (Specific toxic chemical listing	, ,
	es 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 Contr	rol Act) inventory
Listed on SARA Section 302 (Specific toxic chemical listing	
Listed on SARA Section 302 (Specific toxic chemical listing	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test
	rule under ISCA.
SARA Section 302 Threshold Planning Quantity (TPQ)	rule under TSCA. ≤ 10000
SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting	
SARA Section 313 - Emission Reporting	≤ 10000
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3)	<pre>≤ 10000 1.0 %</pre>
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Control	<pre>≤ 10000 1.0 %</pre>
SARA Section 313 - Emission ReportingNonylphenols (25154-52-3)Listed on the United States TSCA (Toxic Substances ContrBenzyldimethylamine (103-83-3)	≤ 10000 1.0 % rol Act) inventory
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contra Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contra	≤ 10000 1.0 % rol Act) inventory
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contraction on the United States TSCA) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contraction on the	≤ 10000 1.0 % rol Act) inventory
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) Usted on the United States TSCA (Toxic Substances Contresting) Quartz (14808-60-7)	<pre>≤ 10000 1.0 % rol Act) inventory rol Act) inventory</pre>
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contraction on the United States TSCA) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contraction on the	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contribution) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contribution) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List	<pre>≤ 10000 1.0 % rol Act) inventory rol Act) inventory</pre>
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0)	<pre>≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer.</pre>
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contribution) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contribution) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List	 ≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause cancer.
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contribution) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contribution) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici	<pre>≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer.</pre>
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7)	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects.
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S California - Proposition 65 - Developmental Toxici	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S California - Proposition 65 - Developmental Toxici U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contring) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contring) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Occupational Exposure Limits - Mineral Dus	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S California - Proposition 65 - Developmental Toxici U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contring) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contring) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Norcarcinogenic Toxic Air Pollutants - Mineral Dus U.S Idaho - Occupational Exposure Limits - Mineral Dus U.S Illinois - Toxic Air Contaminant Carcinogens	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) Usted on the United States TSCA (Toxic Substances Contresting) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Illinois - Toxic Air Contaminant Carcinogens U.S Illinois - Toxic Air Contaminants	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contring) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contring) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Illinois - Toxic Air Contaminant Carcinogens U.S Illinois - Toxic Air Contaminants U.S Maine - Chemicals of High Concern U.S Maisachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)
SARA Section 313 - Emission Reporting Nonylphenols (25154-52-3) Listed on the United States TSCA (Toxic Substances Contresting) Benzyldimethylamine (103-83-3) Listed on the United States TSCA (Toxic Substances Contresting) US State Regulations Quartz (14808-60-7) U.S California - Proposition 65 - Carcinogens List Diisodecyl phthalate (26761-40-0) U.S California - Proposition 65 - Developmental Toxici Quartz (14808-60-7) U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acc U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emi U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Mineral Dus 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	≤ 10000 1.0 % rol Act) inventory rol Act) inventory WARNING: This product contains chemicals known to the State of California to cause cancer. ity WARNING: This product contains chemicals known to the State of California to cause birth defects. reptable Ambient Concentrations ission Levels (ELs)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 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 Tennessee - Occupational Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term
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 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 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 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 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 Pennsylvania - RTK (Right to Know) List U.S Tennessee - Occupational Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Long Term
U.S Tennessee - Occupational Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Long 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
J.S New Jersey - Right to Know Hazardous Substance List
J.S New Jersey - Right to Know Hazardous Substance List J.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
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 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 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 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 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 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 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 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 Vermont - Permissible Exposure Limits - Ceilings
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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- 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)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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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 (TELs)
	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
L	U.S Virginia - Water Quality Standards - Public Water Supply Effluent Limits

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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					
Benzyldimethylamine (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					
G5 Epoxy Adhesive – Hardener					
WHMIS ClassificationClass 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 ClassificationClass 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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	· · · ·			
WHMIS Classification	Uncontrolled pr	oduct according to WHMIS classification criteria		
Ferric oxide black (1317-61	Ferric oxide black (1317-61-9)			
Listed on the Canadian DSL (Domestic Substances List) inventory.				
WHMIS Classification		oduct according to WHMIS classification criteria		
1,3-Benzenedimethanamine (1477-55-0)				
Listed on the Canadian DSL		res List) inventory		
Listed on the Canadian Ingre				
WHMIS Classification		2 Subdivision B - Toxic material causing other toxic effects		
	Class E - Corrosi			
1-(2-Aminoethyl) piperazin	e (140-31-8)			
Listed on the Canadian DSL		ces List) inventory.		
Listed on the Canadian Ingr	•			
WHMIS Classification		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 - Corrosiv		ve Material		
Bisphenol A (80-05-7)				
Listed on the Canadian DSL	(Domestic Substand	es List) inventory.		
Listed on the Canadian Ingre				
WHMIS Classification		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 Class E - Corrosi	1 Subdivision A - Very toxic material causing immediate and serious toxic effects ve Material		
Nonylphenols (25154-52-3)				
Listed on the Canadian DSL		ces List) inventory.		
Listed on the Canadian Ingr				
WHMIS Classification		2 Subdivision B - Toxic material causing other toxic effects		
Benzyldimethylamine (103-	.83-3)			
Listed on the Canadian DSL		es List) inventory.		
Listed on the Canadian Ingr				
This product has been classi	fied in accordance	with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS		
contains all of the informati	on required by CPR			
SECTION 16: OTHER IN	FORMATION			
Revision date	: 03/04	/2014		
Other Information : This doc		ocument has been prepared in accordance with the SDS requirements of the OSHA		
	Hazar	d 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 Tox. 3 (Oral)		Acute toxicity (inhalation:gas) Category 3		
		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		
03/04/2014		EN (English LIS) 16/17		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

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 Date of issue: 03/04/2014 Supersedes Date: 06/09/2010

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

Version: 1.0

Product Identifier							
Product Name: G5 Epoxy Adhesive – P	art A						
Intended Use of the Product							
Concrete Anchoring.							
Name, Address, and Telephone of the	Responsible Party						
Company							
ITW Commercial Construction North A	merica						
700 High Grove Blvd							
Glendale Heights, IL 60139							
1-800-848-5611							
www.itwredhead.com							
Emergency Telephone Number							
	300 (CHEMTREC)						
SECTION 2: HAZARDS IDENTIFIC							
Classification of the Substance or	<u>Mixture</u>						
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						
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.						
	P391 - Collect spinage. P501 - Dispose of contents/container according to local, regional, national, territorial,						
	provincial, and international regulations.						
Oth an Use and	איז						

Other Hazards

Other Hazards Not Contributing to the Classification: This product contains Crystilline 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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

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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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 °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)

Quartz (14808-60-7)		
Mexico	OEL TWA (mg/m³)	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/m³)	0.025 mg/m³
British Columbia	OEL TWA (mg/m³)	0.025 mg/m ³
Manitoba	OEL TWA (mg/m³)	0.025 mg/m³
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m ³
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m³
Nunavut	OEL TWA (mg/m³)	0.3 mg/m ³ (total mass)
Northwest Territories	OEL TWA (mg/m³)	0.3 mg/m ³ (total mass)
Ontario	OEL TWA (mg/m³)	0.10 mg/m ³ (designated substances regulation)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m ³
Québec	VEMP (mg/m ³)	0.1 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m ³

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Yukon	OEL TWA (mg/m³)	300 particle/mL
Talc (14807-96-6)		
Mexico	OEL TWA (mg/m³)	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/m³)	2 mg/m ³
		2 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline
		silica)
Manitoba	OEL TWA (mg/m³)	2 mg/m ³
New Brunswick	OEL TWA (mg/m³)	2 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m³)	2 mg/m ³
Nova Scotia	OEL TWA (mg/m³)	2 mg/m ³
Nunavut	OEL TWA (mg/m³)	6 mg/m ³ (total mass)
Northwest Territories	OEL TWA (mg/m³)	6 mg/m ³ (total mass)
Ontario	OEL TWA (mg/m³)	2 mg/m ³ (containing no Asbestos and <1% Crystalline silica)
Prince Edward Island	OEL TWA (mg/m³)	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/m³)	2 mg/m ³
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			
рН	:	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			

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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/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:

> 5000 mg/kg	
1	
Known Human Carcinogens.	
3	
-	1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National Toxicity Program (NT	FP) Status Evidence of Carcinogenicity, Twelfth Report - Items under consideration.
SECTION 12: ECOLOGICA	L INFORMATION
<u>Toxicity</u>	
Ecology - General: Toxic to aq	uatic 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 Degradabi	i lity Not available
Bioaccumulative Potential	
Talc (14807-96-6)	
BCF fish 1	(no known bioaccumulation)
Mobility in Soil Not available	e
Other Adverse Effects	
Other Information: Avoid rele	
SECTION 13: DISPOSAL C	
	ations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial
and international regulations.	
SECTION 14: TRANSPOR	
	nines, Liquid, Corrosive, N.O.S. (UN2735) under transportation because it ships as a two component
	However, generally ships as "Limited Quantity." Maximum cartridge size is 655 mL (22 oz.). OT Not regulated for transport
14.2 In Accordance with IN	
Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Bisphenol A-
Proper Shipping Name	epichlorohydrin polymer)
Hazard Class	: 9
Identification Number	: UN3082
Packing Group	: 111
Label Codes	: 9
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Marine pollutant	: Marine pollutant
14.3 In Accordance with IA	ΤΑ
Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Bisphenol A-
	epichlorohydrin polymer)
Packing Group	: !!!
Identification Number	: UN3082
Hazard Class	: 9
Label Codes	: 9
ERG Code (IATA)	: 9L
14.4 In Accordance with T	-
Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Bisphenol A-
	epichlorohydrin polymer)
Packing Group	
Hazard Class	
Identification Number	: UN3082
Label Codes	: 9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: REGULATORY INFORMATION				
US Federal Regulations				
G5 Epoxy Adhesive – Part A	Immodiate (acute) health hazard			
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 - Acceptable				
U.S Idaho - Occupational Exposure Limits - Mineral Dusts	evels (LLS)			
U.S Illinois - Toxic Air Contaminant Carcinogens				
U.S Illinois - Toxic Air Contaminant Carcinogens				
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 - Ambien	t Air Levels (AALs) - 24-Hour			
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambien				
U.S New Jersey - Right to Know Hazardous Substance List	t All Levels (AALS) - Allitudi			
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 Verhiolit - Permissible Exposure Limits - TWAS				
U.S Washington - Permissible Exposure Limits - STELS				
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				

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- 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 (D	omestic Substances List) inventory.			
Listed on the Canadian Ingred	lient Disclosure List			
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects			
Dimethyl silicone polymer wi	th silica (67762-90-7)			
Listed on the Canadian DSL (D	omestic Substances List) inventory.			
Talc (14807-96-6)				
Listed on the Canadian DSL (D	omestic 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 (D	omestic Substances List) inventory.			
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects			
This product has been classifie contains all of the information	ed in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS n required by CPR.			

SECTION 16: OTHER INFORMATION

Other	on date Information	03/04/2014 This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
GHS F	ull Text Phrases:	
	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
	Carc. 1A	Carcinogenicity Category 1A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

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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