



# QuakeBond™ 220UR- J201TC Epoxy Cartridge System

## Safety Data Sheet

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

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product code : 15248  
Trade name : QuakeBond™ 220UR- J201TC Epoxy Cartridge System

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

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

QuakeWrap, Inc.  
6840 S. Tucson Blvd.  
Tucson, AZ 85756  
520-791-7000

#### 1.4. Emergency telephone number

Emergency number 1-800-535-5053 (INFOTRAC)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation Category 1C	H314
Skin sensitization Category 1	H317
Hazardous to the aquatic environment - Acute Hazard Category 3	H402
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P260 - Do not breathe mist/vapors/spray  
P264 - Wash all contact areas thoroughly after handling  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P321 - Specific treatment: See SDS Section 4.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P391 - Collect spillage  
P405 - Store locked up  
P501 - Dispose of contents/container to special waste facility in accordance with regional/national regulations



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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Bisphenol-A Epoxy Resin	(CAS No) 25068-38-6	>= 50	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Benzyl Alcohol	(CAS No) 100-51-6	1 - 50	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2B, H320
Filler substance with OEL values	(CAS No) TRADE SECRET	1 - 50	Not classified
1,2-cyclohexanediamine	(CAS No) 694-83-7	1 - 50	Flam. Liq. 4, H227 Skin Corr. 1C, H314 Eye Dam. 1, H318
Filler substance with OEL values	(CAS No) TRADE SECRET	1 - 50	Not classified
Polyamidoamine	(CAS No) 26950-63-0	1 - 50	Eye Dam. 1, H318 Skin Sens. 1, H317
Aliphatic polyamine blend	(CAS No) UNKNOWN	1 - 50	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
Titanium Dioxide substance with OEL values	(CAS No) 13463-67-7	1 - 50	Not classified
1,2-ethanediamine, N,N'-bis(2-aminoethyl)-	(CAS No) 112-24-3	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
- First-aid measures after skin contact : Dispose of contaminated leather articles. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash clothing frequently. Keep work clothing separately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

- Symptoms/injuries : Symptoms may be delayed.
- Symptoms/injuries after inhalation : Not expected to present a respiratory hazard under ambient conditions of normal industrial use due to low vapor pressure. Vapors from heated material may cause mild respiratory irritation with dryness and cough.
- Symptoms/injuries after skin contact : Allergic skin rash. Cured material is difficult to remove. severe skin irritation, redness, dermatitis.
- Symptoms/injuries after eye contact : Causes serious eye irritation. Swelling and conjunctivitis. Lacrimation.
- Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Bisphenol-A Epoxy Resin (25068-38-6)

Chronic symptoms

Allergic response, tissue swelling, hives.



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1,2-cyclohexanediamine (694-83-7)	
Chronic symptoms	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea.
1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)	
Chronic symptoms	*Triethylenetetramine (TETA) caused embryofetal toxicity and fetal malformations when fed to pregnant rats. Similar effects were not seen in studies in which this material was applied to the skin of rabbits, a more relevant route of industrial exposure. These effects are believed to be secondary to copper deficiency, resulting from the chelating activity of the amine. Repeated and prolonged overexposure may cause liver or kidney effects. Animal studies suggest chronic overexposure effects may target the liver.
Titanium Dioxide (13463-67-7)	
Chronic symptoms	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Possible inflammation of the respiratory tract.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating and/or toxic gases or fumes likely if involved in fire or exposed to extreme heat.  
Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
Other information : Combustion produces toxic gases.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Disposable protective gloves.  
Emergency procedures : Avoid contact with skin and eyes. Do not breathe mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment : Impermeable boots and protective equipment. Protective gloves.  
Emergency procedures : Ventilate area. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Prevent product from entering drains.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Dike and contain spill. Soak up small spill with inert solids. Sweep or shovel spills into appropriate container for disposal.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Clean contaminated surfaces with a soap solution.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.



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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : When heated, material emits irritating fumes.
- Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store locked up. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a dry place.
- Maximum storage period : 12 months
- Storage temperature : 25 - 50 °C
- Storage area : Store away from heat.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Filler (TRADE SECRET)		
DNEL	DNEL	<=
OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³ Total dust/Inhalable
Bisphenol-A Epoxy Resin (25068-38-6)		
Not applicable		
Benzyl Alcohol (100-51-6)		
Not applicable		
1,2-cyclohexanediamine (694-83-7)		
Not applicable		
Aliphatic polyamine blend (UNKNOWN)		
Not applicable		
Polyamidoamine (26950-63-0)		
Not applicable		
1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)		
Not applicable		
Filler (TRADE SECRET)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
OSHA	Remark (OSHA)	(3) See Table Z-3.
Titanium Dioxide (13463-67-7)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
ACGIH	Remark (ACGIH)	LRT irr; A3
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³

#### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Gloves. Protective goggles. In case of insufficient ventilation or if heated, wear suitable respiratory equipment.



- Materials for protective clothing : butyl rubber. Nitrile rubber.
- Hand protection : Protective gloves.



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Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Thermal hazard protection	: Use insulated gloves when handling this material hot.
Environmental exposure controls	: Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Black
Odor	: slight Ammoniacal
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C Both components
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: < 1 mm Hg @ 20 deg C
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.21 g/cm <sup>3</sup> Mixed
Solubility	: Poorly soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx). Residual monomer. ammonia.



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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Filler (TRADE SECRET)	
LD50 oral rat	5000 mg/kg
ATE US (oral)	5000.000 mg/kg body weight

Bisphenol-A Epoxy Resin (25068-38-6)	
LD50 oral rat	> 15000 mg/kg
LD50 dermal rat	23000 mg/kg

Benzyl Alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg (Rat; Experimental value)
LC50 inhalation rat (mg/l)	4178 mg/m <sup>3</sup> OECD403
ATE US (oral)	1620.000 mg/kg body weight
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	4178.000 mg/l/4h

1,2-cyclohexanediamine (694-83-7)	
LD50 oral rat	4556 mg/kg
LC50 inhalation rat (mg/l)	> 4.5 mg/l/4h (Rat)
ATE US (oral)	4556.000 mg/kg body weight

1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)	
LD50 oral rat	1716 mg/kg
LD50 dermal rabbit	1465 mg/kg
ATE US (oral)	1716.000 mg/kg body weight
ATE US (dermal)	1465.000 mg/kg body weight

Titanium Dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	> 6.8 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Filler (TRADE SECRET)	
IARC group	3 - Not classifiable

Titanium Dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Benzyl Alcohol (100-51-6)	
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight/day 103 weeks - 5days/wk
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	1072 mg/l/6h/day 4 weeks

Aspiration hazard : Not classified



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Symptoms/injuries after inhalation	: Not expected to present a respiratory hazard under ambient conditions of normal industrial use due to low vapor pressure. Vapors from heated material may cause mild respiratory irritation with dryness and cough.
Symptoms/injuries after skin contact	: Allergic skin rash. Cured material is difficult to remove. severe skin irritation, redness, dermatitis.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Swelling and conjunctivitis. Lacrimation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<b>Bisphenol-A Epoxy Resin (25068-38-6)</b>	
Chronic symptoms	Allergic response, tissue swelling, hives.
<b>1,2-cyclohexanediamine (694-83-7)</b>	
Chronic symptoms	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea.
<b>1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)</b>	
Chronic symptoms	*Triethylenetetramine (TETA) caused embryofetal toxicity and fetal malformations when fed to pregnant rats. Similar effects were not seen in studies in which this material was applied to the skin of rabbits, a more relevant route of industrial exposure. These effects are believed to be secondary to copper deficiency, resulting from the chelating activity of the amine. Repeated and prolonged overexposure may cause liver or kidney effects. . Animal studies suggest chronic overexposure effects may target the liver.
<b>Titanium Dioxide (13463-67-7)</b>	
Chronic symptoms	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Possible inflammation of the respiratory tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

<b>Filler (TRADE SECRET)</b>	
LC50 fish 1	10000 mg/l
EC50 Daphnia 1	10000 mg/l
<b>Bisphenol-A Epoxy Resin (25068-38-6)</b>	
LC50 fish 1	2 mg/l (96 h; Oncorhynchus mykiss; Lethal)
EC50 Daphnia 1	2.8 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)
EC50 Daphnia 2	1.8 mg/l (48 h; Daphnia magna)
ErC50 (algae)	11 mg/l Scenedesmus Growth rate inhibition carpicornrutum (fresh water algae)
NOEC (chronic)	0.3 mg/l Daphnia Magna, Fresh water 21 days (OECD 211 equivalent)
NOEC chronic fish	0.351 ng/l Pimephales promela, Fresh water, 32 days
NOEC chronic crustacea	0.32 ng/l Daphnia Magna, Fresh water semi-static, 21 days
<b>Benzyl Alcohol (100-51-6)</b>	
LC50 fish 1	460 mg/l 96 HR, Pimephales promelas
EC50 Daphnia 1	230 mg/l OECD 202
EC50 other aquatic organisms 1	390 mg/l Bacteria, 24 hrs ISO 8192
NOEC (chronic)	310 mg/l OECD 201 Algae
<b>1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)</b>	
Threshold limit algae 1	>= 100 mg/l (ErC50; DIN 38412-9; 72 h; Scenedesmus subspicatus)
<b>Titanium Dioxide (13463-67-7)</b>	
LC50 fish 1	> 1000 mg/l Pimephales promelas (fathead minnow)
EC50 Daphnia 1	> 1000 mg/l Daphnia magna (Water flea)
ErC50 (algae)	> 100 mg/l Pseudokirchneriella subcapitata (green algae)



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### Titanium Dioxide (13463-67-7)

Threshold limit algae 1	61 mg/l (EC50; Other; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
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### 12.2. Persistence and degradability

#### Filler (TRADE SECRET)

Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

#### Bisphenol-A Epoxy Resin (25068-38-6)

Persistence and degradability	not readily degradable in water.
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#### Benzyl Alcohol (100-51-6)

Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
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#### 1,2-cyclohexanediamine (694-83-7)

Persistence and degradability	Biodegradability in water: no data available.
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#### 1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

Persistence and degradability	Not readily biodegradable in water. No (test) data on mobility of the substance available. Photodegradation in the air.
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#### Titanium Dioxide (13463-67-7)

Persistence and degradability	Biodegradability: not applicable. Low potential for mobility in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

### 12.3. Bioaccumulative potential

#### Filler (TRADE SECRET)

Bioaccumulative potential	No bioaccumulation data available.
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#### Bisphenol-A Epoxy Resin (25068-38-6)

BCF fish 1	3 - 31 QSAR
Log Pow	3.242 estimated
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 1,2-cyclohexanediamine (694-83-7)

Log Pow	0.09 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### 1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

Bioaccumulative potential	Bioaccumulation: not applicable.
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#### Titanium Dioxide (13463-67-7)

Bioaccumulative potential	Not bioaccumulative.
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### 12.4. Mobility in soil

#### Bisphenol-A Epoxy Resin (25068-38-6)

Surface tension	0.0 587-0.0589, 20 °C
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### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.





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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: Landfilling of free liquid not recommended. Fuels burning or incineration preferred for material disposed of in "as sold" condition if regulations permit.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Waste disposal recommendations	: Collect all waste in suitable and labeled containers and dispose according to local legislation.
Additional information	: Material in "as sold" condition is not regulated as a hazardous waste under federal RCRA regulations.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Filler (TRADE SECRET)

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

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

##### Bisphenol-A Epoxy Resin (25068-38-6)

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

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

##### Benzyl Alcohol (100-51-6)

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

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

##### 1,2-cyclohexanediamine (694-83-7)

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

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard  
Fire hazard

##### Polyamidoamine (26950-63-0)

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

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

##### 1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

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

SARA Section 311/312 Hazard Classes

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



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### Filler (TRADE SECRET)

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

### Titanium Dioxide (13463-67-7)

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

## 15.2. International regulations

### CANADA

No additional information available

### EU-Regulations

#### QuakeBond™ 220UR- J201TC Epoxy Cartridge System

RoHS Substance	No
SVHC	No

#### Filler (TRADE SECRET)

SVHC	No
RoHS Substance	No

#### Bisphenol-A Epoxy Resin (25068-38-6)

SVHC	No
RoHS Substance	No

#### Benzyl Alcohol (100-51-6)

SVHC	No
RoHS Substance	No

#### 1,2-cyclohexanediamine (694-83-7)

SVHC	No
RoHS Substance	No

#### Aliphatic polyamine blend (UNKNOWN)

SVHC	No
RoHS Substance	No

#### Polyamidoamine (26950-63-0)

SVHC	No
RoHS Substance	No

#### 1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

SVHC	No
RoHS Substance	No

#### Filler (TRADE SECRET)

SVHC	No
RoHS Substance	No

#### Titanium Dioxide (13463-67-7)

SVHC	No
RoHS Substance	No

### National regulations

#### Aliphatic polyamine blend (UNKNOWN)

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

#### Titanium Dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

## 15.3. US State regulations



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### Benzyl Alcohol (100-51-6)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
U.S. - Massachusetts - Right To Know List

### 1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

U.S. - New Jersey - Right to Know Hazardous Substance List

### Filler (TRADE SECRET)

U.S. - New Jersey - Right to Know Hazardous Substance List

### Titanium Dioxide (13463-67-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Other information : **DISCLAIMER:** To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Full text of H-phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

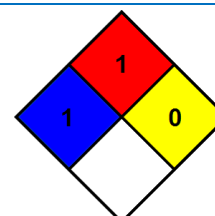
Abbreviations and acronyms:

	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined ACGIH = American Conference of Governmental Industrial Hygienists OSHA = US Occupational Health and Safety Administration TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs) STEL = Short-Term Exposure Limit (15 min) C = Ceiling Value PEL = Permissible Exposure Limit OEL = Occupational Exposure Limit IDLH = Immediately Dangerous to Life and Health ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor PNEC = Predicted No Effect Concentration LOAEL = Lowest Observed Adverse Effect Level NOAEL = No Observed Adverse Effect Level NOAEC = No Observed Adverse Effect Concentration
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NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.





# QuakeBond™ 220UR- J201TC Epoxy Cartridge System

## Safety Data Sheet

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

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HMIS III Rating

- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : C  
C - Safety glasses, Gloves, Synthetic apron

*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*