



# QuakeBond™ 220 (UR, UR-SC, TC) Part A - Black

## 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 : Mixture  
Trade name : **QuakeBond™ 220 (UR, UR-SC, TC) Part A -Black**  
CAS No : None - mix  
Product code : 20353

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

Use of the substance/mixture : Resin: component

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

QuakeWrap, Inc  
6840 S Tucson Blvd  
Tucson, Arizona 85756 - USA  
T 520.791.7000 - F 520.791.0600  
[Office@quakewrap.com](mailto:Office@quakewrap.com) – Quakewrap.com

#### 1.4. Emergency telephone number

Emergency number : Infotrac 800-535-5053

### SECTION 2: Hazard(s) identification

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

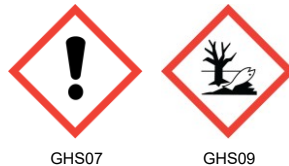
##### GHS-US classification

Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2A	Causes serious eye irritation
Skin sensitization Category 1	May cause an allergic skin reaction
Hazardous to the aquatic environment - Acute Hazard Category 2	Toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 2	Toxic to aquatic life with long lasting effects

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

Avoid breathing mist/vapors/spray  
Wash all contact areas thoroughly after handling  
Contaminated work clothing must not be allowed out of the workplace  
Avoid release to the environment  
Wear protective gloves/protective clothing/eye protection  
If on skin: Wash with plenty of mild soap and water  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Specific treatment: See SDS Section 4.  
If skin irritation or rash occurs: Get medical advice/attention  
If eye irritation persists: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse  
Collect spillage  
Dispose of contents/container to special waste facility in accordance with regional/national regulations

#### 2.3. Other hazards

No additional information available

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

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

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

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 2, H401 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### 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. Inhalation of vapors may cause respiratory irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction. May cause sensitization by skin contact. Repeated or prolonged contact may cause injury to skin.
- Symptoms/injuries after eye contact : Causes serious eye irritation. Inflammation/damage of the eye tissue. Swelling and conjunctivitis.
- Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Bisphenol-A Epoxy Resin (25068-38-6)	
Chronic symptoms	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Runny nose. Respiratory difficulties.

### 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 : On burning: release of harmful/irritant gases/vapors.

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses. Protective goggles.  
Emergency procedures : Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Impermeable boots and protective equipment. Protective gloves. Safety glasses.  
Emergency procedures : Stop leak if safe to do so. 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.

### 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. Wear personal protective equipment.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 : Do not freeze. Minimum storage temp 10 C / 50 F. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a dry place.  
Maximum storage period : 12 months  
Storage temperature : ≥ 10 °C  
Storage area : Store indoors in closed containers with closure in upper position.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Materials for protective clothing : butyl rubber. chloroprene rubber. nitrile rubber.  
Hand protection : Protective gloves.  
Eye protection : Safety glasses.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.  
Thermal hazard protection : Use insulated gloves when handling this material hot.  
Environmental exposure controls : Avoid release to the environment.

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Thick liquid to paste.
Color	: Black
Odor	: There may be no odor warning properties; odor is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odor(s): Mild nondescript
Odor threshold	: No data available
pH	: N/A
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: Heavier than Air
Relative density	: No data available
Specific gravity / density	: 9.6458 lb/gal
Solubility	: Poorly soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 330000 - 430000 cP
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

Minimum ignition energy : <

### 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

Reaction with amines in large amounts or under uncontrolled conditions may produce extreme heat with noxious smoke and fumes.

#### 10.4. Conditions to avoid

Overheating.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

carbon oxides (CO and CO<sub>2</sub>). Residual monomer.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

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

Skin corrosion/irritation	: Causes skin irritation. pH: N/A
Serious eye damage/irritation	: Causes serious eye irritation. pH: N/A
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Notclassified
Carcinogenicity	: Notclassified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Notclassified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Not expected to present a respiratory hazard under ambient conditions of normal industrial use. Inhalation of vapors may cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction. May cause sensitization by skin contact. Repeated or prolonged contact may cause injury to skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Inflammation/damage of the eye tissue. Swelling and conjunctivitis.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Bisphenol-A Epoxy Resin (25068-38-6)	
Chronic symptoms	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Runny nose. Respiratory difficulties.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Bisphenol-A Epoxy Resin (25068-38-6)	
Persistence and degradability	Not readily biodegradable in water. Hydrolysis in water. Low potential for adsorption in soil.

### 12.3. Bioaccumulative potential

Bisphenol-A Epoxy Resin (25068-38-6)	
BCF fish 1	3 - 31 QSAR
Log Pow	3.242 @ 25 deg C, estimated
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

Bisphenol-A Epoxy Resin (25068-38-6)	
Surface tension	0.0 587-0.0589, 20 °C

### 12.5. Other adverse effects

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

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

### 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. Dispose in a safe manner in accordance with local/national regulations. For small amounts, mix resin and hardener according to product directions and allow to harden. When cured, product is non-hazardous, and may be placed in industrial or municipal landfill if local regulations permit.

Additional information : Industrial waste. Landfilling of free liquid not recommended. Fuels burning or incineration preferred for material disposed of in "as sold" condition if regulations permit.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT: Not Regulated for Ground Shipment of Non-Bulk quantities within the continental United States.

For AIR/MARINE:

UN ID : UN3082  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epoxy Resin)

Dangerous for the environment : Yes  
Marine pollutant : Yes



DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit  
Other information : No supplementary information available.

#### Transport by sea

UN ID : UN3082  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epoxy Resin)  
Limited quantities (IMDG) : 5L

#### Air transport

UN ID : UN3082  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epoxy Resin)

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Brownells Acraglas Gel Resin (None - mix)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

<b>Bisphenol-A Epoxy Resin (25068-38-6)</b>	
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

### 15.2. International regulations

#### CANADA

<b>Brownells Acraglas Gel Resin (None - mix)</b>	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### EU-Regulations

<b>Brownells Acraglas Gel Resin (None - mix)</b>	
RoHS Substance	No
SVHC	No
<b>Bisphenol-A Epoxy Resin (25068-38-6)</b>	
SVHC	No
RoHS Substance	No

#### National regulations

<b>Brownells Acraglas Gel Resin (None - mix)</b>	
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory	

### 15.3. US State regulations

No additional information available

## 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:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

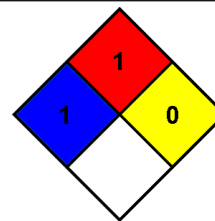
N.A. - Not Applicable  
N.E. - Not Established  
N.D. - Not Determined  
ACGIH = American Conference of Governmental Industrial Hygienists  
OSHA = US Occupational Health and Safety Administration  
TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs)  
STEL = Short-Term Exposure Limit (15 min)  
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

# QuakeBond™ 220 (UR, UR-SC, TC) Part A

## Safety Data Sheet

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

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.



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*