

PRODUCT NAME: STREETBOND CEMBASE RESIN

PRODUCT CODE: SBRH-CB150-B1

~~~~ SECTION 1 ~~~~ MANUFACTURER IDENTIFICATION ~~~~

Manufacturer's Name : QUEST CONSTRUCTION PRODUCTS, LLC  
 Address : 1465 PIPEFITTER STREET  
                   : NORTH CHARLESTON, SC 29405  
                   : INITIAL(FIRST CALL)CHEMTREC(800)424-9300  
 INFORMATION PHONE : (480) 754-8900  
 TOLL FREE : BACKUP(800)541-4383

DATE REVISED : OCTOBER 2011

~~~~ SECTION 2 ~~~~ HAZARDOUS INGREDIENTS/SARA III INFORMATION ~~~~

| Reportable Components | CAS Number | MM HG @ Temp | Weight % |
|--------------------------|------------|--------------|----------|
| Non Hazardous Components | Mixture | NA | 87 |

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 POLYOXYPROPYLENEDIAMINE 9046-10-0 1 212 4
 OSHA PEL: NOT EST., ACGIH TLV: NOT EST., STEL: NOT EST.
 Carboxylic acid salt MIXTURE 22.67 68F/20C 3
 No occupational exposure limits have been established for this chemical.

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 Water 7732-18-5 UNK UNK 3
 No OEL's Established

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 # Crystalline silica 14808-60-7 N/A N/A 2.5
 OSHA PEL TWA: 0.1 mg/m3. ACGIH TLV TWA: 0.1 mg/m3.
 NIOSH MPC: 0.05 mg/m3, 10 hr. Workday, 40 hr. Week.

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 *** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. *** #Indicates carcinogenic chemical

WHEN COMBINED WITH THE HARDENER, THE HAZARDOUS PROPERTIES OF BOTH COMPONENTS MAY BE EXHIBITED. THIS MSDS MAY BE USED FOR OTHER COLORS OF THIS PRODUCT.

~~~~ SECTION 3 ~~~~ HAZARDS IDENTIFICATION ~~~~

Potential Health Effects

Eyes:

Causes irritation, experienced as pain, with excess blinking and tear production, seen as extreme redness and swelling of the eye and chemical burns of the eye. Severe eye damage, may cause blindness.

Skin:

Causes severe irritation with pain, redness and swelling, blister formation, and possible tissue destruction.

Ingestion:

Can result in irritation & corrosive action in the mouth, stomach tissue and digestive tract, resulting in sore throat, abdominal pain, nausea, vomiting and diarrhea. If aspirated into the lungs, chemical pneumonia may result.

*Inhalation:*

May cause burning of the upper respiratory tract and/or temporary or permanent lung damage.

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~~~~ SECTION 4 ~~~~ FIRST AID MEASURES ~~~~

Eyes:

Immediately flush eyes with clean, lukewarm water for 15 minutes while lifting eyelids. Consult a physician or ophthalmologist immediately.

Skin:

REMOVE CONTAMINATED CLOTHING IMMEDIATELY. WASH AFFECTED AREAS WITH SOAP AND WATER. AFTER WASHING, APPLY LOTION OR OINTMENT TO AFFECTED SKIN. WASH CLOTHING BEFORE REUSE. FOR SEVERE EXPOSURES, GET UNDER SAFETY SHOWER AND GET MEDICAL ATTENTION IF IRRITATION OR ALLERGIC DERMATITIS SYMPTOMS DEVELOPS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Inhalation:

Remove from source of exposure and into fresh air. If symptoms persist consult a physician immediately. If not breathing, give artificial respiration and call emergency medical services immediately.

Note to Physician:

Swallowing of this corrosive material may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this material during induced emesis can result in severe lung injury. If evacuation of the stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a poison control center for additional treatment information.

~~~~ SECTION 5 ~~~~ FIRE FIGHTING MEASURES ~~~~

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*Flammable Properties*

Flash Point: 255 deg F

Lower Flammable Limits: 0

Upper Flammable Limit: 0

Auto Ignition Temperature: Not available

*Extinguishing Media:*

Foam, CO<sub>2</sub>, dry chemical, water fog or spray, as appropriate for surrounding fire.

*Special Fire Fighting Procedures:*

Do not enter any enclosed or confined space without full protective equipment, including self-contained breathing apparatus (pressure-demand OSHA/NIOSH approved or equivalent) to protect against the hazardous effects of combustion products and oxygen deficiency.

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~~~~ SECTION 6 ~~~~ ACCIDENTAL RELEASE MEASURES ~~~~

Small Spill:

Always wear appropriate Personal Protective Equipment as you would if you were using this product. Dike and absorb with inert material such as sand and remove all liquid with the use of a vacuum system. If unable to remove as a liquid, then absorb with sand, saw dust or commercial absorbent, and scoop up and place in containers for proper disposal. Keep spills and cleaning runoff out of the municipal sewers and open bodies of water. Decontaminate all clothing and the spill area with a detergent and large amounts of water.

Large Spill:

Use same procedure as small spill.

~~~~ SECTION 7 ~~~~ HANDLING AND STORAGE ~~~~

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Handling & Storage:

Keep from freezing. Keep container cool and dry. Use and store this product with adequate ventilation. Keep product containers tightly closed when not in use. Avoid subjecting this product to extreme temperature variations.

Other Precautions:

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

~~~~ SECTION 8 ~~~~ EXPOSURE CONTROLS/PERSONAL PROTECTION ~~~~

Engineering Controls:

In outside spray, mixing and rolling applications situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers.

Respiratory Protection:

WEAR A NIOSH APPROVED RESPIRATOR APPROPRIATE FOR THE PARTICULATE CONCENTRATION AT THE POINT OF USE. APPROPRIATE RESPIRATORS MAY BE A FULL FACEPIECE OR A HALF MASK AIR-PURIFYING CARTRIDGE RESPIRATOR EQUIPPED FOR ORGANIC VAPORS/MISTS, A SELF-CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE, OR A SUPPLIED-AIR RESPIRATOR. REFER TO OSHA STANDARD 29 CFR 1910.134 FOR ADDITIONAL INFORMATION.

Skin Protection:

The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation. Note that PVA degrades in water.

Eye Protection:

Isolate the area immediately; prevent unauthorized entry.

~~~~ SECTION 9 ~~~~ PHYSICAL AND CHEMICAL PROPERTIES ~~~~

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Boiling Range: 212F/100C - 500 deg F

Melting Point: N/A

Specific Gravity(H<sub>2</sub>O=1): 1.0705

Vapor Density(Air=1): Lighter than air

Vapor Pressure: 17mm Hg @ 20C/68F Water

Evaporation Rate(N-Butyl Acetate=1) : Slower than ether

Coating V.O.C.: 0.02 lb/gl                      Coating V.O.C.: 3 g/l  
Material V.O.C.: 0.01 lb/gl                    Material V.O.C.: 1 g/l  
Solubility in Water: Soluble  
Appearance: Highly thixotropic liquid.  
Odor: PUNGENT AMMONIA ODOR.  
pH: 9.0 to 10.0

## ~~~~ SECTION 10       ~~~~ STABILITY &amp; REACTIVITY DATA ~~~~

## Stability:

Stable

## Conditions To Avoid:

Extremely hot or cold temperatures

## Incompatible Materials:

Avoid strong oxidizing agents such as liquid chlorine,  
concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

## Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomer, carbon  
monoxide and carbon dioxide. Unidentified organic compounds in fumes  
and smoke may be formed during combustion.

## Hazardous Polymerization:

Will not occur

## ~~~~ SECTION 11       ~~~~ TOXICOLOGICAL INFORMATION ~~~~

\*Data is for individual components of preparation.

Materials having a known chronic/acute effects on eyes:

INCONSEQUENTIAL IRRITATION

Materials having a known dermal toxicity.

DERMAL LD50-RABBIT:&gt;5,000MG/KG.

SKIN IRRITATION-RABBIT: MODERATE IRRITATION.

Materials having a known oral toxicity.

INFORMATION IS BASED ON THE TOXICITY PROFILES FOR A NUMBER  
OF ACRYLIC EMULSIONS THAT ARE COMPOSITIONALLY SIMILAR TO THIS PRODUCT  
TYPICAL DATA ARE: PRACTICALLY NON-IRRITATING

Materials having a known Inhalation hazard:

IT IS POSSIBLE TO BREATHE THIS MATERIAL UNDER CERTAIN  
CONDITIONS OF HANDLING AND USE (FOR EXAMPLE, DURING MIXING).  
BREATHING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS  
NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE  
HARMFUL. SYMPTOMS USUALLY OCCUR AT AIR CONCENTRATIONS HIGHER THEN  
THE RECOMMENDED EXPOSURE LIMITS.

## Identified Acute/ Short-term Effects:

Headache, nausea, abdominal pain and irritation of the nose,  
throat and lungs. Skin and eye irritation.

## Identified Carcinogens/Longterm Effects:

Contains crystalline silica. Overexposure to respirable  
crystalline silica dust can cause silicosis, a form of progressive  
pulmonary fibrosis. The International Agency For Research On Cancer  
(IARC) has evaluated in VOLUME 68, Monographs On The Evaluation Of  
The Carcinogenicity Risk Of Chemicals To Humans, crystalline silica  
in the form of quartz and amorphous silica (1997), that there is  
"sufficient evidence for the carcinogenicity of inhaled crystalline  
silica in the form of quartz or cristobalite from occupational

exposures has been classified as a Group 1 Carcinogen By The IARC.

CONTAINS FORMALDEHYDE , CAS#50-00-0 CLASSIFICATION: B1; PROBABLE HUMAN CARCINOGEN. BASIS FOR CLASSIFICATION: BASED ON LIMITED EVIDENCE IN HUMANS, AND SUFFICIENT EVIDENCE IN ANIMALS. HUMAN DATA INCLUDE NINE STUDIES THAT SHOW STATISTICALLY SIGNIFICANT ASSOCIATIONS BETWEEN SITE-SPECIFIC RESPIRATORY NEOPLASMS AND EXPOSURE TO FORMALDEHYDE OR FORMALDEHYDE-CONTAINING PRODUCTS. AN INCREASED INCIDENCE OF NASAL SQUAMOUS CELL CARCINOMAS WAS OBSERVED IN LONG-TERM INHALATION STUDIES IN RATS AND IN MICE. THE CLASSIFICATION IS SUPPORTED BY IN VITRO GENOTOXICITY DATA AND FORMALDEHYDE'S STRUCTURAL RELATIONSHIPS TO OTHER CARCINOGENIC ALDEHYDES SUCH AS ACETALDEHYDE. HUMAN CARCINOGENICITY DATA: LIMITED. ANIMAL CARCINOGENICITY DATA: SUFFICIENT.

Identified Teratogens:

NO ANIMAL DATA AVAILABLE

Identified Reproductive toxins :

NO ANIMAL DATA AVAILABLE

Identified Mutagens:

NO ANIMAL DATA AVAILABLE

~~~~ SECTION 12 ~~~~ ECOLOGICAL INFORMATION ~~~~

Ecotoxicological effects on plants and animals:

NO DATA AVAILABLE

Chemical Fate :

In outside spray, mixing and rolling applications situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers.

Local exhaust ventilation recommended if generating vapor, dust or mist. Turn off heating and/or air conditioning equipment to prevent contaminating building.

If exhaust ventilation is not adequate, use MSHA or NIOSH approved respirator. Refer to OSHA standard 29 CFR 1910.94 for guidelines.

~~~~ SECTION 13 ~~~~ DISPOSAL CONSIDERATIONS ~~~~

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Instructions:

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

~~~~ SECTION 14 ~~~~ TRANSPORT INFORMATION ~~~~

Shipping Information:

DOT INFORMATION: 49 CFR 172.101

DOT DESCRIPTION: NON HAZARDOUS

~~~~ SECTION 15 ~~~~ REGULATORY INFORMATION ~~~~

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(Not meant to be all inclusive-selected regulations represented)

US Regulations:

Status Of Substances Lists:

The Concentrations Shown In Section II Are Maximum Ceiling Levels (Weight %) to be used for calculations for regulations.

A reportable quantity is a quantity of a hazardous substance that triggers reporting requirements under the Comprehensive Environmental Response Compensation And Liability Act (CERCLA).

If a spill of a substance exceeds it's reportable quantity (RQ) in CFR 302.3, Table 40 302.4 Appendix A & 302.4 Appendix B, the release must be reported to The National Response Center At (800) 424-8802, The State Emergency Response Commission (SERC), And community emergency coordinators likely to be affected. Components present that could require reporting under the statute are:  
SEE SECTION II FOR PERCENTAGES

\*TOXIC: NOT REPORTABLE IN QUANTITIES LESS THAN 1%  
#CARCINOGEN: NOT REPORTABLE IN QUANTITIES LESS THAN .1%  
AMMONIA CAS#1336-21-6 RQ 1000 #  
FORMALDEHYDE CAS #50-00-0 RQ 100 #

Superfund Amendments And Reauthorization Act Of 1986 (SARA) Title III Requires emergency planning based on the Threshold Quantities (TPQ'S) and release reporting based on Reportable Quantities (RQ'S) In 40 CFR 355 Appendix A&B Extremely Hazardous Substances. The emergency planning and release requirements of 40 CFR 355 apply to any facility at which there is present any amount of any extremely hazardous substance (EHS) equal to or in excess of it's Threshold Planning Quantity (TPQ). Components present that could require reporting under the statute are:  
FORMALDEHYDE, CAS #50-00-0, RQ 100# TPQ 500#

EPCRA 40 CFR 372 (Section 313) Requires EPA and the States to annually collect data on releases of certain toxic materials from industrial facilities, and make the data available to the public in the Toxics Release Inventory (TRI). This information must be included in all MSDS'S that are copied and distributed or compiled for this material. Reporting Threshold: Standard: A facility must report if it manufactures (including imports) or processes 25,000 pounds or more or otherwise uses 10,000 pounds or more of a listed toxic chemical during the calendar year. Components present that could require reporting under the statute are:  
See Section II

The components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) chemical substance inventory. Mixtures shall be assumed to present the same health hazards as do the components which comprise one percent (by weight or volume) or greater of the mixture, except that the mixture shall be assumed to present a carcinogenic hazard if it has a component in concentrations of 0.1 percent or greater. The remaining percentage of unspecified ingredients, if any, are not contained in above DeMinimis concentrations and/or are believed to be non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200), and may consist of pigments, fillers, defoamers, wetting agents, resins, dryers, anti-bacterial agents, water and/or solvents in varying concentrations.

International Regulations:

Canadian WHMIS:

Ammonium hydroxide CAS#1336-21-6

WHMIS Classification:

D1B - Poisonous and infectious material - Immediate and serious effects - Toxic

E - Corrosive Material

WHMIS Health Effects Criteria Met by this Chemical:

D1B - Acute lethality - toxic - immediate

E - Corrosive to skin

E - TDG class 8 - corrosive substance

WHMIS Ingredient Disclosure List:

Included for disclosure at 1% or greater.

Canadian Environmental Protection Act (CEPA):

All of the components of this product are exempt or listed on the DSL/NDSL. See Section II For Composition/Information on Ingredients.

EINECS:

ALL OF THE COMPONENTS OF THIS PRODUCT ARE LISTED IN THE EINECS INVENTORY OR ARE EXEMPT FROM NOTIFICATION REQUIREMENTS. THE EINECS NUMBER FOR:

|                    |                |                   |
|--------------------|----------------|-------------------|
| FORMALDEHYDE       | CAS#50-00-0    | EINECS#:200-001-8 |
| AQUA AMMONIA       | CAS#1336-21-6  | EINECS#:215-647-6 |
| CRYSTALLINE SILICA | CAS#14808-60-7 | EINECS#:231-545-4 |

State Regulations:

California:

California Proposition 65: The following Statement is made in order to comply with The California Safe Drinking Water and Toxic Enforcement Act of 1986

"WARNING:This product contains the chemical(s) appearing below known to the State of California to:

A: Cause Cancer

FORMALDEHYDE, CAS #50-00-0  
CRYSTALLINE SILICA,CAS#14808-60-7(AIRBORNE PARTICLES OF RESPIRABLE SIZE)

IN ADDITION TO THE ABOVE NAMED CHEMICALS, IF ANY, THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF SOME CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA TO BE CARCINOGENS OR REPRODUCTIVE TOXICANTS.

\*If tinted contains Carbon Black:CAS#1333-86-4 and may also contain trace amounts of Crystalline Silica:CAS#14808-60-7

B: Cause Birth Defects or other Reproductive Harm :

NONE KNOWN

In addition to the above named chemical(s)(if any),this product may contain trace amounts of chemicals, known to the State of California, to cause Cancer or Birth Defects and other Reproductive Harm

Delaware:

Listed on the Delaware Air Quality Management List:

Aqua Ammonia CAS#1336-21-6 DRQ 1000#

Florida:

SILICA CAS# 14808-60-7 LISTED AS TOXIC  
FORMALDAHYDE CAS#50-00-0 LISTED AS TOXIC

Massachusetts:

Ammonia CAS#1336-21-6 Code: F8  
Formaldahyde CAS#50-00-0 Code:1,2,3,4,5,6,\*E,\*C,F6  
Silica CAS#14808-60-7 Code:1,2,4,\*E\*C\*F

Michigan:

FORMADEHYDE,CAS#50-00-0, APPEARS ON THE MICHIGAN CRITICAL MATERIALS REGISTER

Minnesota:

THE FOLLOWING ARE LISTED IN THE MINNESOTA HAZARDOUS SUBSTANCES LIST

| CHEMICAL NAME | CAS#       | CODES | HAZARDS | CARCINOGEN? |
|---------------|------------|-------|---------|-------------|
| FORMALDAHYDE  | 50-00-0    | ANORT | --      | YES         |
| SILICA        | 14808-60-7 | A     | --      | NO          |

New Jersey:

NEW JERSEY EXTRAORDINARILY HAZARDOUS SUBSTANCES:

|              |               |
|--------------|---------------|
| AQUA AMMONIA | CAS#1336-21-6 |
| FORMALDEHYDE | CAS#50-00-0   |

New York:

|              |               |                          |
|--------------|---------------|--------------------------|
| AQUA AMMONIA | CAS#1336-21-6 | RQ AIR 1000, RQ LAND 100 |
| FORMALDAHYDE | CAS#50-00-0   | RQ AIR 100, RQ LAND 1    |

Pennsylvania:

|              |                |         |
|--------------|----------------|---------|
| AMMONIA      | CAS#1336-21-6  | CODE:E  |
| FORMALDEHYDE | CAS#50-00-0    | CODE:ES |
| SILICA       | CAS#14808-60-7 | CODE:-- |

Washington:

|                             |                |                |
|-----------------------------|----------------|----------------|
| SILICA                      | CAS#14808-60-7 |                |
| WASHINGTON AIR CONTAMINANT: | ppm            | mg/Cubic Meter |
| TWA                         | UNK            | .1             |
| STEL                        | UNK            | UNK            |
| CEILING                     | UNK            | UNK            |
| SKIN:UNK                    |                |                |

|                  |             |                |
|------------------|-------------|----------------|
| FORMALDAHYDE     | CAS#50-00-0 |                |
| AIR CONTAMINANT: | ppm         | mg/Cubic Meter |
| TWA              | .75         | UNK            |
| STEL             | 2           | UNK            |
| CEILING          | UNK         | UNK            |
| SKIN:UNK         |             |                |

~~~~ SECTION 16 ~~~~ OTHER INFORMATION ~~~~

HMIS@ III

| | |
|-----------------|-----|
| Health | : 1 |
| Flammability | : 0 |
| Physical Hazard | : 0 |

*Following Health rating Indicates Chronic/Carcinogenic Effects

HMIS@ III Personal Protection : G

This rating is for the product as it is packaged. This rating will need to be adjusted by the user based on conditions of use.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them & determine the suitability & completeness of information from all sources to assure proper use & disposal of these materials & the safety & health of employees & customers