



SAFETY DATA SHEET

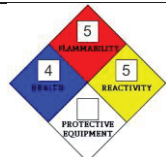
PART 1

1. PRODUCT AND COMPANY IDENTIFICATION

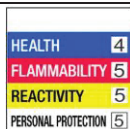
| | | | |
|--------------------|---|----------------|--|
| PRODUCT NAME | PCR Permanent Concrete Repair: Part 1 | | |
| PRODUCT USE | Repair of Damaged Concrete - Dry Mix | | |
| MANUFACTURE'S NAME | Green Umbrella Architectural Concrete Systems 20 Jetview Drive Rochester, NY 14624 | (844) 200-7336 | |
| SUPPLIER'S NAME | SEE MANUFACTURER | | |
| EMERGENCY NUMBER | CHEMTREC (24/7): 1-800-424-9300 | | |

2. HAZARDS IDENTIFICATION

| | |
|-----------------------------|--|
| ROUTE OF ENTRY | Inhalation, Skin contact. |
| CARCINOGENIC STATUS | Respirable crystalline quartz is a suspected human carcinogen, ACGIH Group A2 |
| TARGET ORGANS | Lungs, skin |
| HEALTH EFFECTS – EYE | Dust may cause irritation and possibly corneal damage. |
| HEALTH EFFECTS – SKIN | May dehydrate skin. |
| HEALTH EFFECTS – INGESTION | Irritation of mouth, throat and digestive tract. |
| HEALTH EFFECTS – INHALATION | Prolonged or repeated very close exposure to fine crystalline silica dust may cause scarring of the lungs. |



NFPA



HMIS

5-MINIMAL; 4-SLIGHT; 3-MODERATE; 2-HIGH; 1-EXTREME

**For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident**

Call CHEMTREC 24 Hours

1-800-424-9300 / +1 703-527-3887 CCN: 871558

3. COMPOSITION / INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | CAS NUMBER | WEIGHT % | TLV Mg/m3 | LD50 ORAL RAT Mg/kg | LC50 INHAL RAT ppm |
|----------------------------|---------------|-------------|--------------|---------------------------|--------------------------|
| SILICA, CRYSTALLINE QUARTZ | 14808-60-7 | 60 - 100 | 0.05* | NA | NA |
| MAGNESIUM OXIDE | 1309-48-4 | 10 - 30 | 3.0* | NA | NA |
| (Respirable Fraction) | | (0.67%) | * | | |

4. FIRST AID MEASURES

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| FIRST AID – INHALATION | Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately. |
| FIRST AID – SKIN | Immediately flood the skin with large quantities of water, preferably under a shower. Obtain medical attention if blistering occurs or redness persists. |
| FIRST AID – EYE | Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists. |
| FIRST AID – INGESTION | Rinse mouth out with water. |

INFORMATION FOR DOCTOR

Most important symptoms and effects, both acute and delayed

No further relevant information available

Indications of any immediate medical attention and special treatment needed

No further information available

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| CONDITIONS OF FLAMMABILITY | Non-flammable. Will not support combustion. |
| EXTINGUISHING MEDIA | NA |
| SPECIAL HAZARDS OF PRODUCT | NA |
| PROTECTIVE EQUIPMENT FOR FIRE FIGHTING | NA |
| EXPLOSION DATA – SENSITIVITY TO IMPACT | No |
| EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE | Yes |
| | |
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| | |

6. ACCIDENTAL RELEASE MEASURES

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|---------------------------|--|
| SPILL PROCEDURES | Non-reactive. Transfer into non-dusting sealed containers for recovery or disposal. |
| PERSONAL PRECAUTIONS | Avoid creation of dust. Wear NIOSH approved particle mask, gloves, and eye protection. |
| ENVIRONMENTAL PRECAUTIONS | Stable in environment. Not toxic to wild life. |

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment
 See Section 13 for disposal information

7. HANDLING AND STORAGE

| | |
|----------|---|
| HANDLING | Use in well-ventilated area. Use local exhaust ventilation. Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Handle carefully to avoid creating dust. |
| STORAGE | Store in a dry area. |

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRE

Keep Ignition sources away – Do Not Smoke
 Protect against electrostatic changes

SPECIFIC END USE (S)

No further relevant information available

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

| | |
|-------------------------------|--|
| ENGINEERING CONTROL MEASURES | Use in well-ventilated area. Avoid creation of dust. Up to 0.5 mg/m3 use air purifying respirator with high efficiency particulate filter. Up to 1.25 mg/m3 use powered air purifying respirator with high efficiency filter. Up to 2.5 mg/m3 use full-faced piece air purifying respirator with high efficiency particulate filter. |
| RESPIRATORY PROTECTION | Wear NIOSH approved particle respirator. |
| HAND PROTECTION | Gloves should be worn during all handling operations. |
| EYE PROTECTION | Protect eyes from dust. |
| BODY PROTECTION | Clothing should cover body adequately to prevent exposure. |
| PROTECTION DURING APPLICATION | Will release ammonia gas when mixed with 1260 Part B. Venting or respiration equipment may be required when working in confined spaces. After installation and drying, activities such as grinding, sawing or tear-out of material may cause dust concentration to be above the TLV limit for crystalline quartz. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-------------------------|-----------------|
| PHYSICAL STATE | Solid |
| ODOUR & APPEARANCE | None, Grey-buff |
| ODOR THRESHOLD (ppm) | NA |
| SPECIFIC GRAVITY | 2.65 |
| VAPOR DENSITY (AIR = 1) | NA |
| VAPOR PRESSURE 20 C | 10 mm @ 1730 C |
| EVAPORATION RATE | None |
| BOILING POINT (° C) | 2230 |
| FREEZING POINT (° C) | NA |

| | |
|---------------------------------------|-----------|
| pH | NA |
| COEFFICIENT OF WATER/OIL DISTRIBUTION | NA |
| SOLUBILITY IN WATER | Insoluble |
| VOC (g/l) | 0 |
| FLASH POINT (PMCC) (°C/F) | NA |
| UPPER FLAMMABLE LIMIT %VOL | NA |
| LOWER FLAMMABLE LIMIT %VOL | NA |
| AUTOIGNITION TEMP (°C/F) | NA |

10. STABILITY AND REACTIVITY

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|----------------------------------|--|
| STABILITY | Contact with strong oxidizing agents. |
| CONDITIONS TO AVOID | Oxidizing agents: fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride |
| MATERIALS TO AVOID | Strong oxidizing agents. |
| HAZARDOUS POLYMERIZATION | Will not occur. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Silica will dissolve in hydrofluoric acid and produce a corrosive gas (silicon tetra fluoride) |

11. TOXICOLOGICAL INFORMATION

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|--------------------------------------|--|
| EFFECTS OF ACUTE EXPOSURE | NA - No known acute toxicity. |
| EFFECTS OF CHRONIC EXPOSURE | Repeated inhalation of concentrated free silica dust may cause delayed lung injury (silicosis). |
| EXPOSURE LIMITS | 0.05 mg/m3 Respirable quartz dust. |
| IRRITANCY | Mild irritation expected |
| SENSITIZATION | Unlikely. |
| CARCINOGENICITY | The International Agency for Research on Cancer has concluded that crystalline silica in the form of quartz from occupational exposures should be classified as carcinogenic to humans (Group 1) The American Conference of Government Industrial Hygienists has given crystalline silica, quartz an A2 classification, suspected human carcinogen. Simultaneous exposure to known carcinogens can increase carcinogenicity of crystalline silica. |
| REPRODUCTIVE TOXICITY | NA |
| TERATOGENICITY | NA |
| MUTAGENICITY | NA |
| TOXICOLOGICALLY SYNERGISTIC PRODUCTS | Synergistic effect between smoking and crystalline silica is likely. |

12. ECOLOGICAL INFORMATION

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| MOBILITY | Stable in environment. |
| PERSISTENCE/DEGRADABILITY | Non-biodegradable, generally non-toxic. |
| BIO-ACCUMULATION | Product does not bioaccumulate. |
| ECOTOXICITY | Not toxic to wild life. |
| RESULTS of PBT and vPvB Assessment PBT: N/A vPvB: N/A | |

13. DISPOSAL CONSIDERATIONS

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| PRODUCT DISPOSAL | Non-reactive. Transfer into non-dusting, sealed containers for recovery or disposal. Dispose of in an approved landfill site. Contact local authorities for disposal approval. |
| CONTAINER DISPOSAL | Empty bags may contain hazardous residues. Dispose of bags with care. |

14. TRANSPORTATION INFORMATION

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|---------------------------|---------------------------|
| UNITED STATES | TDG CLASSIFICATION |
| HAZARD LABEL NOT REQUIRED | NOT REGULATED |
| EXPORT | |
| DOT CFR 172.101 DATA | NOT REGULATED |
| UN PROPER SHIPPING NAME | NA |
| UN CLASS | NA |
| UN NUMBER | NA |
| UN PACKAGING GROUP | NA |
| FLASH POINT | NA |
| HAZARDOUS MATERIAL | NA |
| HAZARD LABEL | NA |

Not regulated by CANADA as a hazardous material in any package size.

For Hazardous Materials [or Dangerous Goods] Incident
 Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC 24 Hours
 1-800-424-9300 / +1 703-527-3887 CCN: 871558

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: CLASS D, DIV.2, SUBDIVISION A-Very Toxic Material

CEPA STATUS (DSL): All of the ingredients of this product are listed on the Domestic Substances List.

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

16. OTHER INFORMATION

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|----------------------|--|
| HAZARD RATING (HMIS) | HEALTH: 4 FLAMMABILITY: 5 REACTIVITY: 5 5-MINIMAL; 4-SLIGHT; 3-MODERATE; 2-HIGH; 1-EXTREME |
| KEY | NA: No applicable information found or available CAS#: Chemical Abstracts Service Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk S: Safety LD50: Lethal Dose 50% LC50: Lethal Concentration 50% |
| PREPARED BY: | GREEN UMBRELLA |

REVISION DATE

SEPTEMBER 8, 2020

Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.