

Safety Data



1. Identification of Substance:

| | |
|---|--|
| Product Name: GreenPrime Epoxy 2 - A Side Product Use: Roof Primer Field of Application: building and metal industry Identified uses: Industrial/Professional use . | Company Details: Green Shield Products Address: 4008 Louetta Rd. Suite #464 Spring, TX 77388 Telephone: 1-877-GRN-SHLD 24-Hr. Emergency Response: CHEMTREC (800) 424-9300 INTERNATIONAL: +1-(703) 527-3887 |
|---|--|

2. Hazards Identification

GHS Classification:

Carcinogenicity: Category 1A

GHS Label Elements

H317 May cause an allergic skin reaction

Signal Word: Danger



Precautionary statements:

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood

Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

Response:

IF exposed or concerned: Get medical attention.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 48 %



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3. Composition/information on ingredients:

| Weight Percent | Components | CAS number | Classification |
|----------------|---------------------------|------------|--|
| 0.1 - 1% | Carbon Black | 1333-86-4 | Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system. |
| 0.1 - 1% | Crystalline Quartz Silica | 14808-60-7 | Acute toxicity Category 4 Oral. Carcinogenicity Category 1A. Specific target organ toxicity - repeated exposure Category 1 Lungs. |

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

4. First Aid Measures:

Most Important Symptom(s)/Effect(s)

Acute: Not expected to cause adverse acute health effect.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Inhalation

5. Firefighting measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products

By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.



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6. Accidental release measures

Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal.

7. Handling and Storage

Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

Storage Period: 12 Months

Storage Temperature

Minimum: 1 °C (33.8 °F)

Maximum: 49 °C (120.2 °F)

Substances to Avoid None known

8. Exposure Controls and Personal Protection:

Carbon Black (1333-86-4)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 3.5 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Permissible exposure limit: 3.5 mg/m³

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 3 mg/m³ (Inhalable fraction)

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen

US. ACGIH Threshold Limit Values

Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance

Crystalline Quartz Silica (14808-60-7)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 0.025 mg/m³ (Respirable fraction.)

US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The exposure limit is calculated from the equation, $250/(\%SiO_2+5)$, using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 0.1 mg/m³ (Respirable.)The exposure limit is calculated from the equation, $10/(\%SiO_2+2)$, using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.



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US. OSHA Table Z-3 (29 CFR 1910.1000)

Time Weighted Average (TWA): 0.3 mg/m³ (Total dust.) The exposure limit is calculated from the equation, $30/(\%SiO_2+2)$, using a value of 100% SiO₂. Lower values of % SiO₂ will give higher exposure limits.

US. ACGIH Threshold Limit Values

Hazard Designation: Group A2 Suspected human carcinogen.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection

Permeation resistant gloves

Eye Protection

Splash proof goggles

Skin Protection

Wear cloth work clothing including long pants and long-sleeved shirts.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

9. Physical and Chemical Properties:

| | |
|-------------------------------|---|
| State of Matter: | liquid |
| Color: | Various |
| Odor: | Amine |
| Odor Threshold: | No Data Available |
| pH: | No Data Available |
| Boiling Point: | 100 °C (212 °F) similar to water |
| Flash Point: | Not applicable (water based product), however, solid material will support combustion if water has been evaporated. |
| Evaporation Rate: | No Data Available |
| Lower Explosion Limit: | No Data Available |
| Upper Explosion Limit: | No Data Available |
| Vapor Pressure: | 17 mmHg @ 20 °C (68 °F) similar to water |



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| | |
|--|-------------------|
| Vapor Density: | No Data Available |
| Density: | No Data Available |
| Relative Vapor Density: | No Data Available |
| Specific Gravity: | 1.50 |
| Solubility in Water: | No Data Available |
| Partition Coefficient: n-octanol/water: | No Data Available |
| Auto-ignition Temperature: | No Data Available |
| Decomposition Temperature: | No Data Available |
| Dynamic Viscosity: | No Data Available |
| Kinematic Viscosity: | No Data Available |

10. Stability and Reactivity:

Hazardous Reactions

Hazardous polymerization does not occur.

Stability

Stable

Materials to Avoid

None known

Hazardous Decomposition Products

By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic

11. Toxicological Information:

| | |
|-----------------------------------|---|
| Likely Routes of Exposure: | Skin Contact Eye Contact Inhalation |
|-----------------------------------|---|

Health Effects and Symptoms

Acute: Not expected to cause adverse acute health effects

Chronic: May cause cancer.

Toxicity Data for GreenPrime Epoxy – A Side

Acute Oral Toxicity

Acute toxicity estimate: > 5000 mg/kg (Calculation method)

Acute Inhalation Toxicity

Acute toxicity estimate: > 40 mg/l, 4 h (Calculation method)

Toxicity Data for Carbon Black

Acute Oral Toxicity

LD50: > 8000 mg/kg (rat, male/female) (OECD Test Guideline 401)



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Acute Dermal Toxicity

LD50: > 3000 mg/kg (rabbit)

Skin Irritation

rabbit, Non-irritating

Eye Irritation

Human, non-irritant

Sensitization

Buehler Test: negative (guinea pig, OECD Test Guideline 406)

Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

Repeated Dose Toxicity

13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat,)

Mutagenicity

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): negative Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without) Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Other assay: negative (mouse, male, intraperitoneal) negative

Carcinogenicity

Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

Developmental Toxicity/Teratogenicity

rat, female, Inhalative, 10 days, daily,

Other Relevant Toxicity Information

May cause irritation of respiratory tract.

Toxicity Data for Crystalline Quartz Silica

Acute Oral Toxicity

LD50: 500 mg/kg (rat)



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Mutagenicity

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies.
(Salmonella typhimurium, Metabolic Activation:with/without)

Genetic Toxicity in Vivo:

Sister Chromatid Exchange: ambiguous (hamster) ambiguous

Carcinogenicity

rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week, positive

Carcinogenicity:

Talc (non-asbestos form) **IARC** - Overall evaluation: 3 Not classifiable as to carcinogenicity to humans.

Carbon Black **IARC** - Overall evaluation: 2B Possibly carcinogenic to humans.

Crystalline Quartz Silica **NTP** - Hazard Designation: Known To Be Human Carcinogen.

IARC - Overall evaluation: 1 Carcinogenic to humans.

12. Ecological Information:

No data available for this product.

Ecological Data for Carbon Black

Acute and Prolonged Toxicity to Fish

LC0: > 1,000 mg/l (Danio rerio (zebra fish), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: > 5,600 mg/l (Water flea (Daphnia magna), 24 h)

Toxicity to Microorganisms

EC0: 100 - 800 mg/l, (Activated sludge microorganisms, 3 h)

13. Disposal considerations

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.



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14. Transport Information

Land transport (DOT)

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO/IATA)

Non-Regulated

15. Regulatory Information:

United States Federal Regulations

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:

None

SARA Section 311/312 Hazard Categories:

Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:

None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:

1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.



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Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

| Weight percent | Components | CAS-No. |
|----------------|---------------------------------------|------------|
| >=1% | Water | 7732-18-5 |
| 20 - 30% | Modified BPA/ECH Resin | |
| 7 - 13% | Calcium Silicate | 13983-17-0 |
| 7 - 13% | Talc (non-asbestos form) | 14807-96-6 |
| >=1% | Proprietary Non-Hazardous Ingredients | |
| >=1% | Strontium Phosphosilicate | |
| 1 - 5% | Propylene Glycol Methyl Ether | 107-98-2 |

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

| Weight percent | Components | CAS-No. |
|----------------|-------------------------------|----------|
| 1 - 5% | Propylene Glycol Methyl Ether | 107-98-2 |

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

| Weight percent | Components | CAS-No. |
|----------------|---------------------------|------------|
| 0.1 0.1 - 1% | Crystalline Quartz Silica | 14808-60-7 |
| 45 - 50 ppm | Ammonia | 7664-41-7 |

California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.

| Weight percent | Components | CAS-No. |
|----------------|---------------------------|------------|
| 0.1 - 1% | Crystalline Quartz Silica | 14808-60-7 |
| 0.1 - 1% | Carbon Black | 1333-86-4 |
| <0.1% | n-Methyl-2-pyrrolidone | 872-50-4 |
| 1 - 5 ppm T | oluene | 108-88-3 |

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Green Shield Products. The data on these sheets relates only to the specific material designated herein. Green Shield Products. assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws

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Reviewer Revision 0

Date Prepared: 08/30/2021



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