Safety Data Sheet
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Revision Date: NA Date of issue: 01/22/2025 Version: 1.0

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Storm Breaker Silicone Single Ply Primer**

Product Code:

Intended Use of the Product

Roof Primer

Name, Address, and Telephone of the Responsible Party

Manufacturer

BITEC, Inc.
#2 Industrial Park Drive
Morrilton, AR 72110
T-800-535-8597
F-501-354-3019
www.BITEC.com

Emergency Telephone Number

Emergency Number: 1-800-535-8597

SECTION 2 - HAZARDS IDENTIFICATION

GHS Classification

Eye irritation:	Category 2A
Skin sensitization:	Category 1
Carcinogenicity:	Category 1A

GHS Label Elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause cancer.

Precautionary statements:

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood
Avoid breathing dust, mist, gas, vapors or spray.
Wash skin and face thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

Response:
IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

St**orage:**
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: 24 %

SECTION 3 – COMPOSITION and INFORMATION

Weight Percent	Components	CAS-No.	Classification
10 - 20%	Aluminum hydroxide	21645-51-2	Eye irritation Category 2B.
5 - 10%	Titanium dioxide (Rutile)	13463-67-7	Carcinogenicity Category 2 Inhalation. Specific target organ toxicity – single exposure Category 3 Respiratory system.
0.1 - 1%	Biocide	Trade Secret	Acute toxicity Category 2 Inhalation. Serious eye damage Category 1. Skin sensitization Category 1. Carcinogenicity Category 2.
0.1 - 1%	Ammonium Hydroxide	1336-21-6	Acute toxicity Category 4 Oral. Acute toxicity Category 3 Inhalation. Skin corrosion Category 1A. Serious eye damage Category 1.
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.

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

* Ingredients are Company Trade Secret - Business Confidential. Progressive Materials LLC is withholding the specific chemical information under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)). The specific chemical information will be made available to health professionals in accordance with 29 CFR 1910.1200 (i)(1) (2) (3) (4).

SECTION 4 - FIRST-AID MEASURES

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing dificulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin, or eye problems may be aggravated by exposure to this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure

SECTION 5 - FIRE-FIGHTING 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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.
SPILLS: Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 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)

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

Aluminum hydroxide (21645-51-2)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 1 mg/m3 (Respirable fraction.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Titanium dioxide (Rutile) (13463-67-7)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 10 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Permissible exposure limit: 15 mg/m3 (Total dust.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Ammonium Hydroxide (1336-21-6)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 25 ppm

US. ACGIH Threshold Limit Values
Short Term Exposure Limit (STEL): 35 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Permissible exposure limit: 50 ppm, 35 mg/m3

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/(%SiO2+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/(%SiO2+2), 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): 0.3 mg/m3 (Total dust). The exposure limit is calculated from the equation, 30/(%SiO2+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.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

State of Matter:	liquid
Color:	Various
Odor:	Mild, Amine
Odor Threshold:	No Data Available
pH:	No Data Available
Freezing Point:	0 °C (32 °F) similar to water
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
Vapor Density:	No Data Available
Density:	No Data Available
Relative Vapor Density:	No Data Available
Specific Gravity:	1.2 – 1.5
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

SECTION 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 fumes

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin Contact
Eye Contact
Ingestion Inhalation

Health Effects and Symptoms

Acute: Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning., May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

Chronic: May cause cancer.

Toxicity Data for EVERPRIME METAL

No data available for this product.

Toxicity Data for Aluminum hydroxide

Acute Oral Toxicity
LD50: > 2000 mg/kg (rat, female) (OECD Test Guideline 423)

Skin Irritation
rabbit, OECD Test Guideline 404, Non-irritating

Eye Irritation
rabbit, OECD Test Guideline 405, Slightly irritating

Sensitization
Respiratory sensitization: negative (mouse) Studies of a comparable product.

Skin sensitization according to Magnusson/Kligmann (maximizing test): negative (guinea pig, OECD Test Guideline 406)

Repeated Dose Toxicity
28 Days, Oral: NOAEL: 14,470 ppm, (rat, male)

Mutagenicity
Genetic Toxicity in Vitro:
Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)
Genetic Toxicity in Vivo:
Micronucleus Assay: negative (rat, male/female, Oral) negative

Developmental Toxicity/Teratogenicity
rat, female, oral, NOAEL (teratogenicity): 1,000 mg/kg, No Teratogenic effects observed at doses tested. No fetotoxicity observed at doses tested. rat, female, oral, GD 6-15, daily, NOAEL (teratogenicity): 266 mg/kg, No Teratogenic effects observed at doses tested.
No fetotoxicity observed at doses tested.

Toxicity Data for Titanium dioxide (Rutile) Acute
Oral Toxicity
LD50: > 5000 mg/kg (rat, female) (OECD Test Guideline 425)

Acute Inhalation Toxicity
LC50: > 6.82 mg/l, 4 h (rat, male)

Acute Dermal Toxicity
LD50: > 10000 mg/kg (rabbit)

Skin Irritation
rabbit, OECD Test Guideline 404, Exposure Time: 24 h, Non-irritating

Eye Irritation
rabbit, OECD Test Guideline 405, Non-irritating

Sensitization
dermal: non-sensitizer (Guinea pig, Maximization Test) dermal:

non-sensitizer (Human, Patch Test)

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

Repeated Dose Toxicity
28 Days, inhalation: NOAEL: 35 mg/m3, (Rat)

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily)

up to 2 years, inhalation: NOAEL: 0.01 mg/l, (Rat, male/female, 6 hrs/day 5 days/week)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)
Chromosome aberration test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Drosophila SLRL test: negative (Drosophila melanogaster) negative Cytogenetic

assay: negative (mouse, male, intraperitoneal) negative

Carcinogenicity
Rat, Male/Female, inhalation, according to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

Other Relevant Toxicity Information
May cause irritation of respiratory tract.

Toxicity Data for 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro- Acute Oral Toxicity
LD50: > 10000 mg/kg (rat)

Acute Inhalation Toxicity
LC50: 0.217 mg/l, 4 h (rat) (OECD Test Guideline 403)

Acute Dermal Toxicity
LD50: > 10000 mg/kg (rabbit)

Skin Irritation
rabbit, Draize, Non-irritating

Eye Irritation severe irritant

Sensitization
Skin sensitization: sensitizer (Human)

Toxicity Data for Ammonium Hydroxide Acute Oral Toxicity
LD50: 350 mg/kg (rat)

Acute Inhalation Toxicity
LC50: 2.87 mg/l, 4 h (rat)

Skin Irritation
Corrosive

Eye Irritation
Human, Severely irritating

Sensitization
Skin sensitization: negative

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (E. coli, Metabolic Activation: without)

Toxicity Data for Crystalline Quartz Silica Acute Oral Toxicity
LD50: 500 mg/kg (rat)

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:

Titanium dioxide (Rutile)	**IARC** -	Overall evaluation:	2B Possibly carcinogenic to humans.
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	**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.

SECTION 12 - ECOLOGICAL INFORMATION

Ecological Data for Titanium dioxide (Rutile) Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)

Acute Toxicity to Aquatic Invertebrates
EC0: > 3 mg/l (Water flea (Daphnia magna))

Toxicity to Microorganisms
EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 h)

Ecological Data for Biocide
Acute and Prolonged Toxicity to Fish
LC50: 0.049 mg/l (Other fish)

LC50: 0.076 mg/l (Rainbow (Donaldson)Trout (Oncorhynchus mykiss), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: 0.2 mg/l (Water flea (Daphnia magna))

Ecological Data for Ammonium Hydroxide Additional Ecotoxicological Remarks
No data available for this component.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.
RCRA WASTE CODE: None listed
EU WASTE CODE: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

Non-Regulated

SECTION 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:

Acute Health Hazard 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.

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

Weight percent	Components	CAS-No.
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
20 - 30%	Limestone	1317-65-3
10 - 20%	Aluminum hydroxide	21645-51-2
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

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

Weight percent	Components	CAS-No.
0.1 - 1%	Zinc Oxide	1314-13-2
0.1 - 1%	Ammonium Hydroxide	1336-21-6
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

Weight percent	Components	CAS-No.
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

California Prop. 65:
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin. Female reproductive toxin. Male reproductive toxin.

Weight percent	Components	CAS-No.
5 5 - 10%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

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).

SECTION 16 - OTHER INFORMATION

Revision date : 01/22/2025

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document
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Morrilton, AR 72110

This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.

North America GHS US 2019 & WHMIS