

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

Section I –Product and Company Identification

Product Identifier: Cream Hardener
Product Description/Use: Polymerization Initiator/Hardener
Product Restrictions: None Known
Product Code: 31300
Chemical Family: Organic Peroxide
Company:

Superior Stone Products, Inc.
8580 Byron Commerce Drive
Byron Center, MI 49315
Phone: (616) 583-0171

**24 Hour Emergency Telephone Number:
CHEMTREC 800-424-9300**

Section II – Hazards Identification

GHS Hazard Classification(s):

Organic Peroxide: Type E
Eye Irritation: Category 2B
Short-Term (Acute) Aquatic Hazard: Category 1

Skin Sensitization: Category 1
Acute Aquatic Toxicity: Category 1
Long-Term (Chronic) Aquatic Hazard: Category 1



Symbols:

Hazard Statements:

H242: Heating may cause fire.

H317: May cause an allergic skin reaction.

Precautionary Statements: - Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing and other combustible materials.

P234: Keep only in original packaging.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements: - Response:

P302+352: IF ON SKIN: Wash with plenty of water.

P333+313: If skin irritation or rash occurs: Get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements: - Storage:

P410: Protect from sunlight.

P411+235: Store at temperatures not exceeding 100°F(38°C)

Precautionary Statements: - Disposal:

P501: Dispose of content/container in accordance with federal/state/local regulations.

Signal Word(s): Warning

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

P264: Wash hands thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

.

P337+313: If eye irritation persists: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage

P420: Store away from other materials.

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

Hazards not otherwise classified: None known.

Section III – Composition/Information on Ingredients

Substance/Mixture: Mixture

<u>Ingredient</u>	<u>Synonym(s)</u>	<u>% (By Weight)</u>	<u>CAS#</u>	<u>EINECS No.</u>
Dibenzoyl peroxide	Benzoyl peroxide, Benzoperoxide	45-50%	94-36-0	202-327-6
Zinc stearate	Zinc octadecenoate, Zinc distearate, Stearates	5-10%	557-05-1	209-151-9
Calcium sulfate	Drierite, Calcium sulphate, Anhydrous gypsum	1-5%	7778-18-9	231-900-3

Section IV – First Aid Measures

If Swallowed: Keep respiratory tract clear. Seek immediate medical aid.

Skin Contact: Immediately wash with soap and water. Remove contaminated clothing. Consult a physician if any signs or symptoms described in this document occur. Wash contaminated clothing before reuse.

If Inhaled: Remove victim from exposure to fresh air. If symptoms persist, seek medical attention.

Eyes: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid. Remove contact lenses if present. Keep eye wide open while rinsing.

Most important symptoms/effects, acute and delayed: May cause an allergic skin reaction. Causes eye irritation.

Section V - Fire Fighting Measures

Suitable Extinguishing Media: Water Spray, alcohol-resistant foam, dry chemical, carbon dioxide.

Unsuitable Extinguishing Media: High volume water jet.

Special Fire Fighting Procedures: Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

Unusual Fire and Explosion Hazards: Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.

Hazardous Products of Combustion: Decomposition products may include the following material: carbon oxides.

Other Remarks: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Section VI - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".

Environmental Precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and Materials for Containment and Cleaning Up

Contact with incompatible substances can cause decomposition at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapors/mists with a water spray jet. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

Section VII - Handling and Storage

Precautions for Safe Handling

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.

Advice on safe handling: Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Protect from contamination.

Advice on General Occupational Health: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage, Including and Incompatibles: Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

Store in accordance with national regulations. Do not store in temperatures greater than 100°F/38°C. Keep away from strong acids, bases, heavy metal salts and other reducing substances. No decomposition if stored normally.

Section VIII - Exposure Controls/Personal Protection

Likely Routes of Exposure: Dermal, Ingestion.

Control Parameters

Occupational exposure Limits:

	United States						Australia
	OSHA-PEL		ACGIH-TLV		NIOSH-REL		SWA
	TWA (Z-1)		TWA		TWA		TWA
Dibenzoyl Peroxide	5 mg/m ³		5 mg/m ³		5 mg/m ³		5 mg/m ³
Zinc Stearate	5 mg/m ³ (Respirable)	15 mg/m ³ (Total)	3 mg/m ³ (Respirable)	10 mg/m ³ (Inhalable)	5 mg/m ³ (Respirable)	10 mg/m ³ (Total)	N/A
Calcium Sulfate	5 mg/m ³ (Respirable)	15 mg/m ³ (Total)	10 mg/m ³ (Inhalable)		5 mg/m ³ (Respirable)	10 mg/m ³ (Total)	10 mg/m ³

Engineering Controls: Use only with adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard. Engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental Exposure Controls: Emissions from ventilation of work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures

Hygiene Measures: Wash Hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section IX – Physical and Chemical Properties

Physical State: Paste

Color: White

Odor: Ester-Like

Odor Threshold: Not Available

pH: Not Available

Melting Point/Freezing Point: Not Available

Boiling Point: Not Available

Boiling Range: Not Available

Flash Point: Not Available

Burning Time: Not Available

Burning Rate: Not Available

Evaporation Rate: Not Available

Flammability (solid, gas): Not Available

Lower and Upper Explosive (Flammable) Limits: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

Density: 10 lbs/gal

Specific Gravity: 1.2

Solubility: negligible

Partition Coefficient: n-Octanol/water: Not Available

Auto-Ignition temperature: Not Available

Decomposition Temperature: Not Available

SADT: >50°C SADT

Self Accelerating Decomposition Temp. Lowest temp at which the tested package size will undergo a self-accelerating decomposition reaction.

Viscosity: Not Available.

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

Section X - Stability and Reactivity

Reactivity: Material is stable under recommended storage conditions.

Chemical Stability: Material is stable under recommended storage conditions.

Conditions to avoid: Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.

Incompatibility (materials to avoid): Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents.

Hazardous Decomposition: Irritant, caustic, flammable, noxious/toxic.

Section XI - Toxicological Information

Acute Toxicity: Not classified based on available information.

Skin Irritation/Corrosion: Not classified based on available information.

Serious Eye Damage/Eye Irritation: Causes eye irritation.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not classified based on available information.

Germ Cell Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive Toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Teratogenicity: Not classified based on available information.

Specific Target Organ Toxicity (Single Exposure): Not classified based on available information.

Specific Target Organ Toxicity (Repeated Exposure): Not classified based on available information.

Aspiration Hazard: Not classified based on available information.

Likely Routes of Exposure: Dermal, Ingestion.

Section XII - Ecological Information

EcoToxicology Assessment:

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Persistence and Degradability:

Product/Ingredient Name

Dibenzoyl Peroxide Inherently biodegradable

Zinc Stearate Readily biodegradable

Bioaccumulative Potential:

Product/Ingredient Name LogPow

Dibenzoyl Peroxide 3.2

Zinc Stearate No Data Available

Calcium Sulfate Not Applicable

Mobility in Soil:

Soil/water Partition Coefficient (Koc): Not Data Available

Other Adverse Effects: No Data Available

Section XIII - Disposal Considerations

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use-specific information.

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

Waste from residues: The generation of waste should be avoided or minimized wherever possible. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches chemical or used container. Dispose of wastes in an approved waste disposal facility.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.

Section XIV - Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)

Technical Name: Organic peroxide type E, solid
(Dibenzoyl Peroxide, 50%)

Hazard Class: 5.2

NA/UN Number: 3108

Packing Group: None

Marine Pollutant: Yes

Please refer to DOT regulations for more info

Canada (TDG)

Technical Name: Organic peroxide type E, solid
(Dibenzoyl Peroxide)

Hazard Class: 3

NA/UN Number: 1866

Packing Group: II

Please refer to TDG Regulations for more info

International Air Transport Association (IATA)

Technical Name: Organic peroxide type E, solid
(Dibenzoyl Peroxide)

Hazard Class: 5.2

NA/UN Number: 3108

Packing Group: None

ERG Code: 5L

Please refer to IATA regulations for more info.

International Maritime Organization (IMO)

Technical Name: Organic peroxide type E, solid
(Dibenzoyl Peroxide)

Hazard Class: 5.2

NA/UN Number: 3108

Packing Group: None

EmS: F-J, S-R

Marine Pollutant: Yes

Please refer to IMO regulations for more info.

Special Precautions for User: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variation in regional or country regulations.

Section XV - Regulatory Information

United States Federal Regulations:

Sara Title III - Section 311/312

<u>Criteria</u>	<u>Yes/No</u>
Immediate (Acute) Health Effects:	Yes
Chronic (Delayed) Health Effects:	No
Fire Hazard:	Yes
Sudden Release of Pressure Hazard:	No
Reactivity:	Yes

Sara Title III - Section 313

<u>Product/Ingredient Name</u>	<u>CAS Number</u>	<u>%</u>
Dibenzoyl Peroxide	94-36-0	45-50
Zinc Stearate	557-05-01	5-10

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Cream Hardener

Issue Date: 8/1/21

Revision Date: 8/1/21

SDS Number: 100-31100

State Regulations:

California Prop 65 – This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Section XVI - Other Information

Hazardous Material Information System (United States):

Health	2
Flammability	1
Physical Hazards	1

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating are not required on SDSs under 29 CFR 19101200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (United States):



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325 which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

MANUFACTURER DISCLAIMER: This information is provided in good faith and is correct to the best of the manufacturers' knowledge as of the date hereof; however, the manufacturer makes no representation as to its completeness or accuracy. Customers are encouraged to make their own determination as to the suitability of this product for their purpose prior to use. The manufacturer disclaims responsibility to damages of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES.