SAFETY DATA SHEETS

This SDS packet was issued with item:

074375580

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

074375564 074375572

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071136266

MATERIAL SAFETY DATA SHEET

TEMPHASE BASE PASTE

1 - IDENTIFICATION

Manufacturer:	Kerr Corporation
Address:	1717 West Collins Avenue
City, State, Zip:	Orange, CA 92867-5422
Telephone:	1-800-KERR-123
Emergency:	**Chemtrec 1-800-424-9300**
Date Prepared:	June 6, 2005

2 - COMPOSITION INFORMATION

Hazardous Ingredients

	CAS #	PEL	TLV	%
Uncured Metharcylate Ester Monomers	109-16-0	N/A	N/A	50-60

Other Ingredients:
Inert mineral fillers and stabilizers

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/D
Specific Gravity (H_20 = 1): 1.5
Vapor Pressure (mm Hg): N/D
Vapor Density (AIR= 1): N/D
Solubility in Water: Insoluble
Appearance and Odor: Colored paste with fruity ester-like odor.

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/D
Flammable Limits: **LEL:** N/D **UEL:** N/D
Extinguishing Media: Chemical foam, CO_2, dry chemical
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Heat can cause polymerization with rapid release of energy.

5 - REACTIVITY DATA

Stability: Stable if stored as directed
Conditions to Avoid: Heat, aging and contamination
Incompatibility (Material to Avoid): Oxidizing agents and peroxides.
Hazardous Decomposition Products: Oxides of carbon
Hazardous Polymerization: Will not occur when using clinical amounts of this material.

6 - HEALTH HAZARD DATA

Routes of Entry:
Skin: Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals.
Eyes: May cause irritation and damage if not removed promptly.
Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion: May be harmful if swallowed. Seek medical attention.
Carcinogenicity - **NTP: No**
IARC Monographs: No **OSHA Regulated Carcinogen:** No

7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash with soap and water.
Eyes: Flush with water for 15 minutes. Contact physician.
Inhalation: Remove to fresh air. If irritation persists, contact physician.
Ingestion: Contact a physician

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: Absorb spills with inert material. Keep spilled material out of sewers.
Waste disposal method: Unpolymerized (uncured) material may be RCRA hazardous waste. Incinerate uncured material in accordance with all Federal, State and local regulations.
Precautions to be taken in handling and storing: Store in a cool, dry place away from heat and ignition sources.

9 - CONTROL MEASURES

Respiratory Protection: Use in a well ventilated area.
VENTILATION:
Local Exhaust: Adequate ventilation to maintain PEL
Mechanical (General): Should be sufficient
Protective Gloves: Latex or other impervious rubber material
Eye Protection: Safety Glasses or goggles
Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

10 - TRANSPORTATION INFORMATION

Not DOT regulated.

11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:
H1 F2 R1
[HMIS Index: 4 - Severe Hazard; 3 -Serious Hazard; 2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

Note: Hazard information contained on this MSDS form relates only to material in its uncured state. Thorough biocompatibility and toxicity testing of the cured material and its extracts have demonstrated that the material is non-toxic.

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. Tbe information in this MSDS is, to the best of our knowledge, believed to be accurate.

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: Suprastone Die Stone – All Colors
Product Use: Dental product: Stone and plasters

Manufacturer: Kerr Corporation
1717 W. Collins Ave.
Orange, CA 92867-5422
U.S.A.

Information Phone Number: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date of Preparation/Revision: January 29, 2019

Section 2. Hazards Identification

GHS Classification:
Skin Sensitization Category 1
Carcinogenicity Category 1A

Label Elements:
Danger!

Hazard Phrases
May form combustible dust concentrations in air.
May cause an allergic skin reaction.
May cause cancer.

Precautionary Phrases:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or concerned: Get medical attention.
IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
If skin irritation or a rash occurs: Get medical attention.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Quartz	14808-60-7	0.1-1%
Tricobalt tetraoxide	1308-06-1	0.1-1%

Section 4. First Aid Measures

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Skin Contact: Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

Eye Contact: Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

Most important symptoms and effects, acute and delayed: Exposure to airborne concentrations above recommended exposure limits may cause irritation of the eyes, nose, throat and lungs. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment, if needed: None required under normal conditions of use.

Section 5. Fire Fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising from the Chemical: Fine dust clouds may form explosive mixtures with air. Combustion may produce sulfur oxides, metal oxides, and calcium oxide.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

Section 6: Accidental Release Measures

Personal precautions, Protective equipment, and Emergency procedures: Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Avoid breathing dust.

Environmental Precautions: Avoid releases to the environment. Report spill as required by local and federal regulations.

Methods and Materials for Containment and Cleaning up: Prompt cleanup and removal are necessary. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. For large spills, approach release from upwind. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Precautions for Safe Handling: Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Do not breathe dust. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure Controls / Personal Protection

Exposure Limits

Chemical	Exposure Limit
Quartz	0.025 mg/m^3 TWA ACGIH TLV
Tricobalt tetraoxide	0.02 mg/m^3 TWA ACGIH TLV

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Hand protection: Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

Eye Protection: Chemical safety goggles are recommended if contact is possible.

Skin Protection: Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

Hygiene measures: Suitable eye and skin washing facilities should be available in the work area.

Section 9. Physical and Chemical Properties

Appearance:	Blue and green solid (powder)	**Odor:**	Odorless
Odor Threshold:	Not available	**pH:**	Not available
Melting/Freezing Point:	Not available	**Boiling Point/Range:**	Not available
Flash Point:	Not available	**Evaporation Rate:**	Not available
Flammability: (Solid, Gas)	Not available	**Flammability Limits:**	LEL: Not applicable UEL: Not applicable
Vapor Pressure:	Not available	**Vapor Density:**	Not available
Relative Density:	13.35	**Solubilities:**	Very slightly soluble in water
Partition Coefficient: (N-Octanol/Water)	Not available	**Autoignition Temperature:**	Not available
Decomposition Temperature:	Not available	**Viscosity:**	Not available

Section 10. Stability and Reactivity

Reactivity: The product is not expected to be reactive.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to avoid: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible Materials: Acids.
Hazardous decomposition products: None if stored normally.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin Contact: May cause an allergic skin reaction.
Eye Contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Ingestion: None expected.
Chronic Hazards: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. May cause cancer. Risk of cancer depends on duration and level of exposure.

Skin Sensitization: No adverse effects expected. Components are not sensitizers.

Respiratory Sensitization: No data available. This product is not expected to cause respiratory sensitization.

Germ Cell Mutagenicity: None of the components have shown mutagenic activity in animal studies.

Carcinogen:
Quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC, "Suspected Human Carcinogen" (Group A2) by ACGIH, and "Known to be a Human Carcinogen" by NTP.
Tricobalt tetraoxide is listed as "Possibly Carcinogenic to Humans" (Group 2B) by IARC and "Confirmed Animal Carcinogen with Unknown Relevance to Humans" (Group A3) by ACGIH.
None of the other components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

Developmental / Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental toxicity.

Specific Target Organ Toxicity (Single Exposure): No data available.

Specific Target Organ Toxicity (Repeated Exposure): Repeated exposure to mercury may affect lungs.

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values:
Tricobalt tetraoxide: LD50 Oral rat: >5000 mg/kg

Section 12. Ecological Information

Toxicity: No data available.

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative Potential: Tricobalt tetraoxide has a BCF of 15600, potential for bioaccumulative is high.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Section 13. Disposal Considerations

Disposal: For unused product, dispose of in accordance with Federal and local regulations.
Container Disposal: Dispose of empty container in accordance with Federal and local regulations.

Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated			None
EU ADR/RID	None	Not Regulated			None
IMDG	None	Not Regulated			None

IATA/ICAO	None	Not Regulated			None

Special Precautions for User: None identified

Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

Section 15. Regulatory Information

U.S. Federal Regulations:

EPA SARA 311/312 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Protection Of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

International Inventories

US EPA TSCA Inventory: All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

Canada CEPA: All of the components of this material are listed on the DSL or exempt.

Section 16. Other Information

Effective Date: January 29, 2019
Supersedes Date: May 28, 2015
Revision Summary: All Sections – New SDS format

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.