SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: **Life Base (Regular & Fast)**
Product Use: Dental cavity liner and pulp capping agent

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

Australian Supplier: **Kerr Australia Pty Limited**
Unit 10, 112-118 Talavera Road
North Ryde, NSW 2113
Australia
Telephone no.: 1 800 643 603
Email general queries: kavokerr.orders@kavokerr.com
Email technical queries: safety@kavokerr.com

Information Phone Number: 1-800-KERR-123 (in the US)

Poisons Information Helpline: 131126 (24 hours)

SDS Date of Preparation/Revision: August 24, 2018

Section 2. Hazards Identification

GHS / HAZCOM 2012 Classification:
Skin Irritation Category 2
Eye Damage Category 1
Specific Target Organ Toxicity Single Exposure Category 3 (Respiratory Irritation)

Label Elements

Danger!


Corrosive


Exclamation Mark

Hazard Phrases
Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Precautionary Phrases:
Avoid breathing dust, mist, vapors or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye protection.
Collect spillage.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
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
Calcium Hydroxide	1305-62-0	30-60%
Zinc Oxide	1314-13-2	10-30%

Section 4. First Aid Measures

Inhalation: Move to fresh air. Get medical attention if breathing is difficult or symptoms of exposure persist.

Skin Contact: Remove contaminated clothing. Wash with soap and water Get medical attention if irritation persists. Launder contaminated clothing before reuse.

Eye Contact: Flush eyes with water for 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Get medical immediate attention.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Get medical attention.

Most important symptoms and effects, acute and delayed: Causes severe eye irritation or burns. Permanent damage may occur. Causes skin irritation. Inhalation of dust from dried product may cause respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea and vomiting.

Indication of immediate medical attention and special treatment, if needed: Immediate medical attention is required for eye contact.

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: This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Combustion may produce carbon, nitrogen, sulfur and zinc 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. Hazchem Code: 2Z

Section 6: Accidental Release Measures

Personal precautions, Protective equipment, and Emergency procedures: Wear appropriate protective clothing and equipment. Prevent contact with eyes, skin and clothing. Avoid breathing dust from dried product.

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

Methods and Materials for Containment and Cleaning up: Collect with an inert absorbent materials and place in appropriate containers for disposal.

Section 7. Handling and Storage

Precautions for Safe Handling: Prevent contact with eyes, skin and clothing. Wear appropriate eye protection and gloves when handling (see Section 8). Wash thoroughly with soap and water after handling. 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 acids and other incompatible materials. Keep containers tightly closed and sealed until ready for 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
Calcium Hydroxide	5 mg/m^3 TWA Australia WEL
Zinc Oxide	10 mg/m^3 TWA, Australia WEL (as dust)

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

Respiratory Protection None needed under normal use conditions. In operations where exposure levels are exceeded, an approved dust/mist respirator or supplied air respirator should be used. 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 recommended if contact is possible.

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:	Off-white viscous paste	**Odor:**	Odorless
Odor Threshold:	Not available	**pH:**	Not available
Melting/Freezing Point:	Not available	**Boiling Point/Range:**	Not available
Flash Point:	Not flammable	**Evaporation Rate:**	Not available
Flammability: (Solid, Gas)	Not applicable	**Flammability Limits:**	LEL: Not applicable UEL: Not applicable
Vapor Pressure:	Not available	**Vapor Density:**	Not available
Relative Density:	2.0	**Solubilities:**	Insoluble 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.
Possibility of Hazardous Reactions: None known.
Conditions to avoid: Protect from moisture.
Incompatible Materials: Avoid acids.
Hazardous decomposition products: Thermal decomposition will produce carbon, nitrogen, sulfur and zinc oxides.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: No adverse effects are expected under normal use. Inhalation of vapors or mists may cause respiratory tract irritation with coughing and sneezing.
Skin Contact: Causes skin irritation.
Eye Contact: Causes severe eye irritation or burns. Permanent damage may occur.
Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin corrosion/irritation: Calcium hydroxide is irritating to rabbit skin.

Eye damage/ irritation: Calcium hydroxide is corrosive to rabbit eyes.

Skin Sensitization: No data available. Components are not skin sensitizers.

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

Germ Cell Mutagenicity: None of the components are germ cell mutagens.

Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP or the EU CLP.

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

Specific Target Organ Toxicity (Single Exposure): Calcium hydroxide has been shown to cause respiratory irritation.

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

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values: No toxicity data is available for the product.
Acute Toxicity Estimate (ATE): Oral: >2000, Inhalation: >5 mg/L/4 hr, Dermal: >2000 mg/kg
Calcium Hydroxide: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >6.04 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg.
Zinc Oxide: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >5.7 mg/L, Dermal rat LD50 >2000 mg/kg

Section 12. Ecological Information

Toxicity: No toxicity data available for product.
Calcium Hydroxide: 96 hr LC50 Oncorhynchus mykiss 50.6 mg/L, 48 hr EC50 daphnia magna 49.1 mg/L, 72 hr EC50 Pseudokirchneriella subcapitata 184.57 mg/L
Zinc Oxide: 96 hr LC50 Oncorhynchus kisutch 727 ug/L, 48 hr EC50 daphnia magna 860 ug/L, 72 hr NOEC Pseudokirchneriella subcapitata 5.4 ug/L

This product is very toxic to aquatic life with long lasting effects.

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

Bioaccumulative Potential: No data available.

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. For used product, the waste solution must be characterized by the generator and disposed 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
ADG	UN3077	Environmentally Hazardous Substance, Solid, n.o.s. (zinc oxide).	9	III	Yes
IMDG	UN3077	Environmentally Hazardous Substance, Solid, n.o.s. (zinc oxide).	9	III	Yes
IATA/ICAO	UN3077	Environmentally Hazardous Substance, Solid, n.o.s. (zinc oxide).	9	III	Yes

Special Precautions for User: None identified

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

Hazchem Code: 2Z

Section 15. Regulatory Information

Montreal Protocol (Ozone Depleting Substances): None present
The Stockholm Convention (Persistent Organic Pollutants): None present
The Rotterdam Convention (Prior Informed Consent): None present
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not applicable

Australian AICS: This product is regulated by the Therapeutic Goods Administration (TGA) and therefore, is exempt from the AICS regulation.

Section 16. Other Information

Effective Date: August 24, 2018
Supersedes Date: January 7, 2017
Revision Summary: All Sections – New SDS format – Rev0
Section 1 – Updated contact information – Rev1

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