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DENTAL

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Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

| | |
|---|---|
| Product Name: | Life Regular Set (Base & Catalyst) |
| Manufacturer: | Kerr Corporation |
| SDS Expiry: | 14 April 2026 |
| Supplier Details: | Henry Schein New Zealand<br>243-249 Bush Road, Rosedale, Auckland, 0632<br>PO Box 101 140, North Shore, Auckland 0745<br>Ph. 0800 808 855<br>www.henryschein.co.nz |
| Emergency Contacts: | Poisons/Hazardous Chemical Info Centre –<br>0800POISON/0800764766 (24 Hours)<br>Phone 111 for Fire, Ambulance or Police |
| HSNO Class/Category: | 6 / 8 / 9 |
| HSNO Group Standard: | Dental Products Subsidiary Hazard Group Standard 2020<br>HSR002558 |
| Statements/Pictograms: | As per attached Safety Data Sheet (SDS) |
| Date Prepared: | This coversheet was prepared – January 2025 |

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

# SAFETY DATA SHEET

## Section 1. Product And Company Identification

**Product Name**: **Life Catalyst**
**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 6, 12 Mars Road
Lane Cove West, NSW 2066
Australia
Telephone no.: 1 800 643 603
Email general queries: kavokerr.orders@kavokerr.com
Email technical queries: safety@kavokerr.com

**Poisons Information Helpline**: 131126 (24 hours)

**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**: April 14, 2021

## Section 2. Hazards Identification

**GHS / HAZCOM 2012 Classification:**
Skin Sensitization Category 1B

Label Elements

**Warning!**

Exclamation Mark

**Hazard Phrases**
May cause an allergic skin reaction.

**Precautionary Phrases:**
Avoid breathing dust or fume from dried product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
Dispose of contents and container in accordance with local and national regulations.

## Section 3. Composition/Information on Ingredients

| Component | CAS No. | Amount |
|---|---|---|
| Photocurable Resin | Proprietary | 30-60% |
| Barium Sulfate | 7727-43-7 | 30-60% |
| Titanium Dioxide | 13463-67-7 | 10-30% |

## Section 4. First Aid Measures

**Inhalation**: Move to fresh air. If respiratory irritation or breathing is difficult, get medical attention.

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

**Eye Contact**: Flush eyes with water for several minutes. Remove contact lenses. Get medical attention if irritation persists.

**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:** May cause eye irritation. Prolonged skin contact may cause irritation. May cause an allergic skin reaction. 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 not required.

## 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 product is not flammable but may burn under fire conditions. Combustion may produce carbon, barium and iron oxides and halogenated compounds.

**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: None

## Section 6: Accidental Release Measures

**Personal precautions, Protective equipment, and Emergency procedures:** Wear appropriate protective clothing and equipment. Avoid 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:** For small spills, wipe up with a paper towel. For large spills, collect with an inert absorbent materials and place in appropriate containers for disposal.

## Section 7. Handling and Storage

**Precautions for Safe Handling:** Avoid 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 oxidizing agents 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 |
|---|---|
| Photocurable Resin | None Established |
| Barium Sulfate | None Established |
| Titanium Dioxide | 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 for prolonged skin contact. .

**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:** | Beige, off-white or pink paste | **Odor:** | Characteristic |
| **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<br>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:** None known.
**Incompatible Materials:** Avoid strong oxidizing agents.
**Hazardous decomposition products:** Thermal decomposition will produce carbon, barium and iron oxides and halogenated compounds.

## 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:** Prolonged skin contact may cause irritation. May cause an allergic skin reaction.
**Eye Contact**: May cause eye irritation with redness and tearing.
**Ingestion**: Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin corrosion/irritation:** None of the components are skin irritants.

**Eye damage/ irritation:** None of the components are eye irritants.

**Skin Sensitization:** Photocurable resin has been shown to cause skin sensitization based on similar materials.

**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):** No data available.

**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: >5000, Dermal: >2000 mg/kg
Photocurable Resin: No toxicity data available
Barium Sulfate: Oral rat LD50 307 g/kg, Dermal rat LD50 >2000 mg/kg
Titanium Dioxide: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >6.82 mg/L/4 hr

## Section 12. Ecological Information

**Toxicity:** No toxicity data available for product.
Photocurable Resin: No data available
Barium Sulfate: 96 he LC50 Danio rerio >3.5 mg/L, 48 hr EC50 daphnia magna 14500 ug/L, 72 he EC50 Pseudokirchnerella subcapitata > 1.15 mg/L
Titanium Dioxide: 96 hr LC50 Pimephales promelas >1000 mg/L, 48 hr EC50 daphnia magna >1000 mg/L, 72 hr EC50 Pseudokirchneriella subcapitata 61 mg/L

**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** | | Not Regulated | | | No |
| **IMDG** | | Not Regulated | | | No |
| **IATA/ICAO** | | Not Regulated | | | No |

**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:** None

## 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:** April 14, 2021
**Supersedes Date:** August 24, 2018
**Revision Summary:** Section 1 – Updated contact information

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.

# 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 6, 12 Mars Road
Lane Cove West, NSW 2066
Australia
Telephone no.: 1 800 643 603
Email general queries: kavokerr.orders@kavokerr.com
Email technical queries: safety@kavokerr.com

**Poisons Information Helpline**: 131126 (24 hours)

**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**: April 14, 2021

## 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<br>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:** April 14, 2021
**Supersedes Date:** August 24, 2018
**Revision Summary:** Section 1 – Updated contact information

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.