

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: Permlastic Catalyst (Light-Bodied)

Product Use: Dental product: Denture impression material.

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: April 17, 2019

Section 2. Hazards Identification

GHS Classification:

Acute Oral Toxicity Category 4

Eye Irritation Category 2B

Carcinogenicity Category 1B

Toxic to Reproduction Category 1A

Specific Target Organ Toxicity Repeated Exposure Category 2

Aquatic Acute Toxicity Category 1

Aquatic Chronic Toxicity Category 1

Label Elements:

Danger!



Hazard Phrases

Harmful if swallowed.

Causes eye irritation.

May cause cancer.

May damage fertility or the unborn child.

Suspected of damaging fertility.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Precautionary Phrases:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves, eye or face protection.

IF exposed or concerned: Get medical attention.

Get medical attention if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

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.

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 |
|--------------|-----------|--------|
| Zinc oxide | 1314-13-2 | 30-60% |
| Lead dioxide | 1309-60-0 | 10-30% |

Section 4. First Aid Measures

Inhalation: Immediately remove victim to fresh air. Get medical attention if you feel unwell.

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: Causes eye irritation. Harmful if swallowed. May cause damage to organs. May damage fertility or the unborn child.

Indication of immediate medical attention and special treatment, if needed: Immediate medical attention is required if large quantities have been ingested or inhaled.

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: Combustion may produce carbon dioxide, carbon monoxide, and metal oxides.

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. Do not breathe 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. Absorb spills with an inert material and place it in an appropriate waste disposal container.

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 vapors. 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 |
|--------------|---|
| Zinc oxide | 2 mg/m ³ TWA ACGIH TLV (respirable fraction) |
| Lead dioxide | 0.05 mg/m ³ TWA ACGIH TLV (as lead) |

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: | Brown paste | Odor: | Slightly fruity |
| 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: | >1 | 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 under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid excessive heat.

Incompatible Materials: Reducing materials.

Hazardous decomposition products: None if stored normally.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: None known.

Skin Contact: None known.

Eye Contact: Causes eye irritation.

Ingestion: Harmful if swallowed.

Chronic Hazards: May cause damage to organs through prolonged or repeated exposure. May cause cancer. Risk of cancer depends on duration and level of exposure. May damage the unborn child. Product is suspected of damaging fertility.

Skin corrosion/irritation: This product is not expected to cause skin irritation or corrosion.

Eye damage/ irritation: This product is not expected to cause eye irritation or corrosion.

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 are mutagenic.

Carcinogen: Lead dioxide is reasonably anticipated to be a human carcinogen by NTP. 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 lead dioxide may damage blood system, kidneys and nervous system.

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values:

Product ATE: 1452.3 mg/kg (Oral)

Zinc oxide: LD50 Oral rat: >15000 mg/kg; LD50 Dermal rat: >2000 mg/kg;

LD50 Inhalation rat: 5.7 mg/L/4 hr;

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| Section 12. Ecological Information |
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Toxicity:

Zinc oxide: 96 hr IC50 Skeletonema costatum 1.85 mg/L; 96 hr LC50 Oncorhynchus mykiss 1.1 ppm; 72 hr IC50 Pseudokirchneriella subcapitata 46 µg/L; 48 hr LC50 Daphnia magna 98 µg/L

This product is classified as very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

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

Bioaccumulative Potential: Zinc oxide has a BCF of 60960, potential for bioaccumulative is high.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

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| Section 13. Disposal Considerations |
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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.

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| Section 14. Transport Information |
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| | UN Number | UN Proper Shipping Name | Hazard Class(s) | Packing Group | Environmental Hazards |
|--------|-----------|---------------------------|-----------------|---------------|-----------------------|
| US DOT | UN3077 | Environmentally Hazardous | 9 | III | Yes |

| | | | | | |
|-------------------|--------|--|---|-----|-----|
| | | Substance, solid, n.o.s. (Lead dioxide). Marine pollutant (Lead dioxide) | | | |
| EU ADR/RID | UN3077 | Environmentally Hazardous Substance, solid, n.o.s. | 9 | III | Yes |
| IMDG | UN3077 | Environmentally Hazardous Substance, solid, n.o.s. (Lead dioxide). Marine pollutant (Zinc oxide, Lead dioxide) | 9 | III | Yes |
| IATA/ICAO | UN3077 | Environmentally Hazardous Substance, solid, n.o.s. (Lead dioxide) | 9 | III | Yes |

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):

| | | |
|--------------|-----------|--------|
| Zinc oxide | 1314-13-2 | 30-60% |
| Lead dioxide | 1309-60-0 | 10-30% |

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: April 17, 2019

Supersedes Date: May 15, 2015

Revision Summary: All Sections – New SDS format



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