

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: Permlastic Base (Regular; Heavy-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: March 27, 2019

Section 2. Hazards Identification

GHS Classification:

Toxic to Reproduction Category 1B

Aquatic Chronic Toxicity Category 2

Label Elements:

Danger!



Hazard Phrases

May damage fertility or the unborn child.

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.

Wash hands thoroughly after handling.

Avoid release to the environment.

Wear eye protection, protective gloves, protective clothing.

IF exposed or concerned: Get medical attention.

Collect spillage.

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
Benzyl butyl phthalate	85-68-7	5-10%
Sulfur	7704-34-9	1-5%
(R)-p-mentha-1,8-diene	5989-27-5	<1%
Cinnamaldehyde	104-55-2	<1%
Linalool	78-70-6	<1%
Octamethylcyclotetrasiloxane	556-67-2	0.1-1%

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: 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, sulfur oxides, halogenated compounds, 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 vapors.

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
Benzyl butyl phthalate	None Established
Sulfur	15 mg/m ³ TWA OSHA PEL (total inhalation) 5 mg/m ³ TWA OSHA PEL (respirable inhalation)
(R)-p-mentha-1,8-diene	None Established
Cinnamaldehyde	None Established
Linalool	None Established
Octamethylcyclotetrasiloxane	None Established

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:	White paste	Odor:	Sulfur
Odor Threshold:	Not available	pH:	Not available
Melting/Freezing Point:	Not available	Boiling Point/Range:	356.67°C (674°F) (mercury)
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: May cause mild skin irritation.

Eye Contact: None known.

Ingestion: None known.

Chronic Hazards: 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: None of the 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): Single exposure to Benzyl butyl phthalate may cause respiratory tract irritation.

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

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values:

Benzyl butyl phthalate: LD50 Oral rat: 2330 mg/kg; LC50 Inhalation rat: 6.7 mg/L/4 hr;

LD50 Dermal rabbit: >10000 mg/kg

Sulfur: LD50 Oral rat: >3000 mg/kg; LD50 Dermal rabbit: >2000 mg/kg;

LC50 Inhalation rat: >0.067 mg/L/4 hr

Cinnamaldehyde: LD50 Oral rat: 2200 mg/kg; LD50 Dermal rabbit: 1260 mg/kg;

Linalool: LD50 Oral rat: 2790 mg/kg; LD50 Dermal rat: 5610 mg/kg; LD50 Dermal rabbit: 2000 mg/kg

Octamethylcyclotetrasiloxane: LD50 Oral rat: 4800 mg/kg; LD50 Dermal rat: >2400 mg/kg;

LC50 Inhalation rat: 36 mg/L

Section 12. Ecological Information

Toxicity:

Benzyl butyl phthalate: 96 hr EC50 *Pseudokirchneriella subcapitata* 100 µg/L;

72 hr EC50 *Skeletonema costatum* 1.5 mg/L; 48 hr EC50 *Daphnia magna*- 0.76 mg/L;

48 hr EC50 Crustaceans 0.9 mg/L

Sulfur: 96 hr LC50 zebra-fish 866 mg/L; 48 hr EC50 *Daphnia magna* >5000 mg/L

Linalool: 96 hr EC50 *Desmodesmus subspicatus* 88.3 mg/L; 96 hr LC50 *Leuciscus idus* 22 – 46 mg/L;

48 hr EC50 *Daphnia magna* 20 mg/L

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

Persistence and degradability: Benzyl butyl phthalate is readily biodegradable.

Bioaccumulative Potential:

Benzyl butyl phthalate has a BCF of 1693.25, log P_{ow} 4.77, potential for bioaccumulative is high.

Octamethylcyclotetrasiloxane has a BCF of 13400, log P_{ow} 6.488, 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	None	Yes
EU ADR/RID	UN3077	Environmentally Hazardous Substance, solid, n.o.s. (BBP)	9	III	Yes
IMDG	UN3077	Environmentally Hazardous Substance, solid, n.o.s. (BBP). Marine pollutant (BBP)	9	III	Yes
IATA/ICAO	UN3077	Environmentally Hazardous Substance, solid, n.o.s. (BBP)	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): 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: March 27, 2019

Supersedes Date: November 25, 2013

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.