SAFETY DATA SHEETS

This SDS packet was issued with item:

074306296

N/A

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: Rubber Base Adhesive
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: 05/14/19

Section 2. Hazards Identification

GHS Classification:
Flammable Liquids Category 2
Skin Irritation Category 2
Eye Irritation Category 2A
Toxic to Reproduction Category 2
Specific Target Organ Toxicity Single Exposure Category 3
Specific Target Organ Toxicity Repeated Exposure Category 2

Label Elements:
Danger!

Hazard Phrases
Highly flammable liquid and vapor.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging the unborn child.
May cause respiratory irritation.
May cause drowsiness and dizziness.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.
Keep cool.
Use explosion-proof electrical, ventilating, lighting, and all material-handling equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe vapors.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection or face protection.
IF exposed or concerned: Get medical attention.
Get medical advice/attention if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/ shower. If skin irritation occurs: Get medical attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position 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. If eye irritation persists: Get medical attention.
Store in a well-ventilated place.
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
Acetone	67-64-1	30-60%
Toluene	108-88-3	10-30%
Butanone	78-93-3	10-30%
Zinc oxide	1314-13-2	1-5%
Salicylic acid	69-72-7	1-5%

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air. Get medical attention if symptoms occur.

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 serious eye irritation and skin irritation. Can cause central nervous system depression. May cause drowsiness, dizziness, and respiratory irritation.

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: Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides, metal oxides, hydrocarbon, aldehyde/ketone, and hydrogen cyanide.

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 or 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 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 dust or 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
Acetone	250 ppm TWA NIOSH REL 590 mg/m^3 TWA NIOSH REL
Toluene	100 ppm TWA NIOSH REL 375 mg/m^3 TWA NIOSH REL
Butanone	200 ppm TWA OSHA PEL

	590 mg/m^3 TWA OSHA PEL
Zinc oxide	15 mg/m^3 CEIL NIOSH REL (as dusts) 5 mg/m^3 TWA NIOSH REL (as dusts and fumes) 10 mg/m^3 STEL NIOSH REL (as fume)
Salicylic acid	None Established

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

Respiratory Protection: 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.

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 liquid	**Odor:**	Organic solvents, ketone
Odor Threshold:	Not available	**pH:**	Not available
Melting/Freezing Point:	Not available	**Boiling Point/Range:**	55.6°C (132.1°F)
Flash Point:	-18°C (-0.4°F) (Closed cup)	**Evaporation Rate:**	1.9
Flammability: (Solid, Gas)	Not applicable	**Flammability Limits:**	LEL: 2.6% UEL: 12.8%
Vapor Pressure:	180 mmHg at room temperature	**Vapor Density:**	2
Relative Density:	0.86 – 0.89	**Solubilities:**	Insoluble in water
Partition Coefficient: (N-Octanol/Water)	Not available	**Autoignition Temperature:**	Not available
Decomposition Temperature:	Not available	**Viscosity:**	Dynamic: 175 – 350 cP at 25°C

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 all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to

accumulate in low or confined areas.
Incompatible Materials: Strong acids and oxidizing materials.
Hazardous decomposition products: None if stored normally.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: Can cause central nervous system depression. May cause drowsiness, dizziness, and respiratory irritation.
Skin Contact: Can cause skin irritation and defat the skin.
Eye Contact: Causes serious eye irritation.
Ingestion: Can cause central nervous system depression.
Chronic Hazards: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Product is suspected of damaging the unborn child.

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: 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 effects.

Specific Target Organ Toxicity (Single Exposure): Single exposure to Acetone, Toluene, and Butanone can cause narcotic effects and respiratory tract irritation.

Specific Target Organ Toxicity (Repeated Exposure): Repeated exposure Toluene and Butanone can damage hearing organs, heart, kidneys, liver, nervous system and reproductive organs.

Aspiration Toxicity: Toluene is an aspiration hazard category 1.

Acute Toxicity Values:
Product ATE: 2451.2 mg/kg (Oral)
Acetone: LD50 Oral rat: 5800 mg/kg, LD50 Dermal rabbit: >15800 mg/kg;
LC50 Inhalation rat: 76 mg/L/4hr (as vapor)
Toluene: LD50 Oral rat: 636 mg/kg; LD50 Dermal rat: 12124 mg/kg; LD50 Dermal rabbit: 8390 mg/kg;
LC50 Inhalation rat: 12.5 mg/L/4hr
Butanone: LD50 Oral rat: 2737 mg/kg; LD50 Dermal rabbit: 6480 mg/kg;
Inhalation rat LC50: 11243 ppm/4hr
Zinc oxide: LD50 Oral rat: >5000 mg/kg; LD50 Inhalation rat: 7950 mg/kg
Salicylic acid: LD50 Oral rat: 891 mg/kg; LD50 Dermal rat: >2 g/kg; LD50 Dermal rabbit: 2000 mg/kg;
LC50 Inhalation rat: >900 mg/m^3

Section 12. Ecological Information

Toxicity:
Acetone: 96 hr EC50 Ulva pertusa 20.565 mg/L; 48 hr LC50 Daphnia magna: 12100 mg/L
Toluene: 96 hr LC50 Oncorhynchus kisutch 5.5 mg/L;
72 hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L; 48 hr EC50 Crustaceans: 11.6 mg/L
Butanone: 96 hr LC50 Pimephales promelas 3220 mg/L; 48 hr EC50 Daphnia magna: 5091 mg/L
Zinc oxide: 96 hr LC50 Oncorhynchus mykiss: 1.1 ppm;
72 hr IC50 Pseudokirchneriella subcapitata 46 µg/L; 48 hr LC50 Daphnia magna 98 µg/L
Salicylic acid: 48 hr EC50 Daphnia magna: 870 mg/L

This product is classified as harmful to the aquatic environment. Releases to the environment should be avoided.

Persistence and degradability: Acetone and Toluene are readily biodegradable.

Bioaccumulative Potential:
Acetone: log P_{ow} -0.23, potential for bioaccumulative is low.
Toluene has a BCF of 90, log P_{ow} 2.73, potential for bioaccumulative is low.
Butanone: log P_{ow} 0.3, potential for bioaccumulative is low.
Zinc oxide has a BCF of 60960, potential for bioaccumulative is high.
Salicylic acid: log P_{ow} 2.21 – 2.26, potential for bioaccumulative is low.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Section 13. Disposal Considerations

Disposal: For unused solution, flush thoroughly with large quantities if water into sewage disposal system in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.
Container Disposal: Rinse empty container thoroughly with water and discard clean, empty container as general trash or offer for recycling, if available.

Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	UN1133	Adhesives RQ (Toluene, Acetone)	3	II	None
Canada TDG	UN1133	Adhesives	3	II	None
IMDG	UN1133	Adhesives. Marine pollutant (Zinc oxide)	3	II	Yes
IATA/ICAO	UN1133	Adhesives	3	II	None

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):

Toluene	108-88-3	10-30%
Zinc oxide	1314-13-2	1-5%

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.

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.

Canadian Regulations:

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

National Pollutant Release Inventory (NPRI): This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None

International Inventories

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

Korea: All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

Section 16. Other Information

NFPA Rating: Fire: 3 Health: 2 Instability: 0

Effective Date: May 14, 2019

Supersedes Date: June 10, 2015
Revision Summary: All Sections – New SDS format

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