

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** Gel Etchant

**Product Use:** Etching gel

**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](mailto:kavokerr.orders@kavokerr.com)  
Email technical queries: [safety@kavokerr.com](mailto:safety@kavokerr.com)

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

**Emergency Phone Number:** Poisons Information Helpline: 131126 (24 hours)

**SDS Date of Preparation/Revision:** March 31, 2020

### Section 2. Hazards Identification

**GHS Classification:**

Skin Corrosion Category 1A

Eye Damage Category 1

**Label Elements:**

**Danger!**



**Hazard Phrases:**

H314 Causes severe skin burns and eye damage.

**Precautionary Phrases:**

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection.

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P501 Dispose of contents and container in accordance with local and national regulations.

### Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Phosphoric acid	7664-38-2	30-60%
Fumed silica	112945-52-5	1-5%

### Section 4. First Aid Measures

**Inhalation:** Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

**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 severe skin burns and eye damage.

**Indication of immediate medical attention and special treatment, if needed:** No immediate medical attention is 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, phosphorus oxides, metal oxide, hydrogen.

**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.

**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. Soak up spills with inert solids and place in container for disposal according to local regulations.

## 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. 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 between 20 to 25°C (68 to 77°F) 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
Phosphoric acid	1 mg/m <sup>3</sup> TWA Safe Work Australia
Fumed silica	10 mg/m <sup>3</sup> TWA Safe Work Australia (inhalable fraction)

**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.

<b>Section 9. Physical and Chemical Properties</b>
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<b>Appearance:</b>	Blue gel	<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	1
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	Not available
<b>Flash Point:</b>	Not flammable	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: Not applicable UEL: Not applicable
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	1 g/cm <sup>3</sup>	<b>Solubilities:</b>	Soluble in water
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available	<b>Viscosity:</b>	Not available

<b>Section 10. Stability and Reactivity</b>
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**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 extremely high or low temperatures.

**Incompatible Materials:** Oxidizing materials, reducing materials, metals, acids, alkalis, moisture, peroxides, amines.

**Hazardous decomposition products:** None if stored normally.

<b>Section 11. Toxicological Information</b>
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**Potential Health Effects:**

**Inhalation:** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

**Skin Contact:** Causes severe skin burns.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.

**Chronic Hazards:** None expected.

**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, or EU CLP.

**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):** No data available.

**Aspiration Toxicity:** Not an aspiration hazard.

**Acute Toxicity Values:**

Phosphoric acid: LD50 Dermal rabbit: 2740 mg/kg; LD50 Oral rat: 1.25 g/kg

Fumed silica: LD50 Oral rat: >5000 mmg/kg; LD50 Dermal rabbit: >5000 mg/kg

<b>Section 12. Ecological Information</b>
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**Toxicity:**

Phosphoric acid: 96 hr LC50 Lepomis macrochirus 60 ppm; 48 hr EC50 Daphnia magna 105 ppm.

Fumed silica: 96 hr LC50 Brachydanio rerio: >10000 mg/L; 24 hr EC50 Daphnia magna: >10000 mg/L

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

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** Slightly soluble.

**Other Adverse Effects:** No data available.

<b>Section 13. Disposal Considerations</b>
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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.

<b>Section 14. Transport Information</b>
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	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
<b>ADG</b>	UN1805	Phosphoric acid solution	8	III	None
<b>IMDG</b>	UN1805	Phosphoric acid solution	8	III	None
<b>IATA/ICAO</b>	UN1805	Phosphoric acid solution	8	III	None

**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:** Not applicable

## 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):** None present  
**Australian AICS:** Not determined.

## Section 16. Other Information

**Effective Date:** March 31, 2020  
**Supersedes Date:** August 12, 2014  
**Revision Summary:** All Sections – New SDS format

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