

SAFETY DATA SHEET

Diamond Polishing Paste

Section 1: Identification

Product Name: Diamond Polishing Paste

Synonyms: Diamond Paste

Chemical Name: Mixture; composition as supplied by manufacturer

CAS Number: 7782-40-3

Recommended Use: Abrasive polishing and lapping paste for hard materials and workpieces

Restrictions on Use: Not for pharmaceutical, food, cosmetic, or medical use.

Supplier Details (Australia): Roy Lehmann

Company Name: Roys Rocks

Address: Online only at www.roysrocks.com

PO Box 13080, University of Adelaide, South Australia, 5005, Australia

ABN: 81 841 683 279

Email: roys.rocks@yahoo.com

Emergency Phone Number: Poisons Information Centre (131126)

Section 2: Hazard Identification

Classification of the substance/mixture (GHS - Australia):

Not classified as hazardous according to the available factory MSDS information and the criteria applied in this SDS.

Label Elements:

Signal Word: None

Hazard Pictogram(s): None

Hazard Statement(s): Not classified as hazardous

Precautionary Statement(s):

P261: Avoid breathing mist, vapour, or generated spray.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves and eye protection.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Other Hazards:

Ingestion may cause gastrointestinal reaction. Avoid contact with eyes and ingestion.

Slippery material may create a slip hazard if spilled.

Section 3: Composition / Information on Ingredients

Ingredient	CAS Number	Proportion
Diamond Powder	7782-40-3	~5-20%
Surfactant	Not stated	~15-20%
Inorganic component	Not stated	~15-18%
Mixed fatty acid	Not stated	~40-50%
Hydroxyacetic acid	79-14-1	~10-12%

Section 4: First Aid Measures

Inhalation: Move the person to a well-ventilated area and provide plenty of fresh air. Seek medical attention if symptoms persist or breathing is difficult.

Skin Contact: Wash with plenty of water. Remove contaminated clothing and wash before reuse.

Eye Contact: Rinse cautiously with clean water or eyewash for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Drink plenty of water. Do not induce vomiting. Obtain medical advice if unwell or if gastrointestinal symptoms occur.

Advice to Doctor: Treat symptomatically; monitor for gastrointestinal irritation.

Section 5: Firefighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, foam, or carbon dioxide. Use media appropriate for surrounding fire.

Hazards from Combustion: Product is reported as non-flammable and has no explosive limit; decomposition products from organic components may include carbon oxides and irritating fumes if strongly heated.

Precautions for Firefighters: Wear self-contained breathing apparatus and full protective gear in enclosed or heavily smoke-affected areas. Keep containers cool with water spray.

Section 6: Accidental Release Measures

Personal Precautions: Avoid eye contact and unnecessary skin contact. Prevent slips on spilled paste. Use protective gloves and eye protection.

Environmental Precautions: Prevent large quantities from entering sewers, watercourses, or soil.

Methods for Clean-Up: Contain the spill. Scrape or absorb paste with inert material and place in labeled, closed containers. Clean the affected area with water and detergent as appropriate; avoid creating spray. Dispose of collected material according to local requirements.

Section 7: Handling and Storage

Handling: Use at normal processing temperature. Avoid contact with eyes and ingestion. Wash hands after handling.

Storage: Store in a cool environment, tightly closed, protected from heat, freezing, and contamination. Shelf life of 3 years under recommended storage conditions.

Section 8: Exposure Controls / Personal Protection

Exposure Standards (Safe Work Australia):

No specific workplace exposure standard is identified for this mixture.

Engineering Controls: General ventilation is normally adequate. Use local exhaust ventilation where mist, spray, or heated vapour may be generated.

Personal Protective Equipment (PPE):

Eye Protection: Safety goggles or chemical splash protection.

Skin Protection: Protective clothing as needed.

Respiratory Protection: Not normally required under normal use with adequate ventilation. Use a suitable particulate/mist respirator if spray, mist, or inadequate ventilation occurs.

Hygiene Measures: Wash hands and exposed skin after handling; do not eat, drink, or smoke while using the product.

Section 9: Physical and Chemical Properties

Appearance: White-grey, viscous paste

Odour: Odourless

Viscosity: 500–1000 cP

Melting Point/Freezing Point: Not available

Boiling Point: Not available; mixture may decompose before boiling

Solubility in Water: Dispersible/soluble due to surfactant and organic-acid components

pH: 10.0–10.5

Vapour Pressure: Not available; expected to be low at ambient temperature

Flash Point: Not available; no fire and no explosive limit

Auto-Ignition Temperature: Not available

Relative Density: 1.2–1.4 g/mL

Surface Tension: <35 mN/m

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Reactivity: No hazardous reaction expected under normal processing and storage conditions.

Incompatible Materials: Strong oxidising agents, strong acids, and excessive heat.

Hazardous Decomposition Products: Carbon oxides and irritating fumes may be produced on thermal decomposition or combustion.

Section 11: Toxicological Information

Likely Routes of Exposure: Skin contact, eye contact, ingestion, and inhalation of mist or spray.

Acute Effects: May irritate the respiratory tract and eyes. Ingestion may cause a gastrointestinal reaction.

Chronic Effects: No chronic effects reported.

Carcinogenicity: No information available for the complete mixture.

LD50/LC50: No data available for the complete mixture low; toxicity expected.

Section 12: Ecological Information

Ecotoxicity: No specific ecotoxicity data available for the complete mixture. Avoid uncontrolled release.

Persistence and Degradability: No data available for the complete mixture; organic components may be biodegradable to some extent.

Bioaccumulation Potential: No data available.

Mobility in Soil: Paste may adhere to surfaces and move with spilled liquid; prevent entry into drains and waterways.

Section 13: Disposal Considerations

Disposal Methods: Dispose of product and contaminated absorbent through an approved waste contractor in accordance with local environmental regulations. Do not discharge concentrated product to drains or waterways.

Waste Code: Not available; classify according to applicable local waste regulations.

Packaging Disposal: Empty containers should be drained, closed, and disposed of or recycled in accordance with local requirements. Do not reuse containers for food or other products.

Section 14: Transport Information

UN Number: Not regulated based on available information.

Proper Shipping Name: Diamond Polishing Paste

Transport Hazard Class: None

Packing Group: None

Special Precautions: Keep containers closed and upright. Protect from heat and prevent leakage; clean up spills promptly, as the product may be slippery.

Section 15: Regulatory Information

Australia (AIIC): Ingredient inventory status not verified from the factory MSDS.

Poisons Schedule (SUSMP): Not determined from the factory MSDS.

Workplace Exposure Standards: No specific mixture standard identified; refer to Section 8.

Last Updated 13/08/2026

Section 16: Other Information

Date of Preparation: 13/08/2026

SDS Version: 1.0

Prepared By: Roy Lehmann/Roys Rocks, based on factory MSDS

Data source and limitations:

Factory-supplied data used directly include the product name, instructed CAS number, manufacturer name, pH 10.0–10.5, specific gravity 1.2–1.4 g/mL, white appearance, viscosity 500–1000 cP, shelf life of 3 years, storage in a cool environment, composition percentages, normal-temperature processing, use concentration 0.5–3%, no fire/no explosive limit, stable status, reported health effects, and first-aid directions.

Values identified as not available or reasonable industry guidance are marked in the relevant sections.

Disclaimer:

The information contained herein is believed to be accurate based on the supplied factory MSDS and reasonable industry guidance available at preparation. However, it is the responsibility of the user to ensure suitability for their own use and compliance with applicable laws. No warranty is expressed or implied.