

1. IDENTIFICATION

Product identifier: Diamond Lapping Compound

Trade Name: Diamond Lapping Compound Colors: White, Ivory, Yellow, Orange, Green, Blue, Red, Brown, Purple, Grey, Black, and Auburn

Responsible Party: Radiac Abrasives, Inc.
 A Tyrolit Company
 1015 S. College Avenue
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2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health	Environment
Not Hazardous	Not Hazardous	Not Hazardous

Hazards not otherwise classified: None

Symbol(s) None

Signal word

None

Hazard statement(s)

None

Precautionary statement(s)

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Chemical name	CAS No.	Concentration
Non-hazardous ingredients	Mixture	Balance
Diamond	7782-40-3	≤15%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret and to cover products of variable composition. For more information about the composition for sampling purposes, contact Radiac Abrasives.

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4. FIRST-AID MEASURES

Inhalation: Not a likely route of exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if irritation develops or persists.

Skin contact: Wash skin with soap and water. Launder contaminated clothing before reuse.

Eye contact: Flush eyes thoroughly with plenty of water for several minutes, holding open eyelids. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if symptoms develop.

Most important symptoms/effects, acute and delayed: May cause slight eye and skin irritation.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is generally not required.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use water spray, carbon dioxide, dry chemical and foam to extinguish. Do not use direct stream as it may spread fire.

Specific hazards arising from the chemical: Hazardous decomposition may produce oxides of silicon, carbon monoxide, carbon dioxide, aldehydes, alcohols, ethers, hydrocarbons, ketones, organic acids, polymer fragments, metal oxides and formaldehyde.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Contain water used in firefighting from entering sewers or natural waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate personal protective equipment to avoid eye and skin contact.

Environmental precautions: Report spills as required to authorities.

Methods and materials for containment and cleaning up: Cover with an inert absorbent material and collect into an appropriate container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid eye and skin contact. Wear suitable gloves, eye protection and appropriate protective clothing according to the operation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities: Store in accordance with ANSI B7.1. Store in a cool, dry, well-ventilated area and protect from physical damage.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Non-hazardous ingredients	None Established
Diamond	None Established

Appropriate engineering controls: None needed for normal use. Use local exhaust or general ventilation as required to minimize exposure.

Individual protection measures, such as personal protective equipment:

Respiratory protection: None normally required. Use NIOSH approved respirator where exposures are excessive.

Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin protection: Impervious gloves recommended for prolonged contact.

Eye protection: Safety goggles or safety glasses with side shield recommended where contact is possible.

Other: Protective clothing as needed to prevent contamination of personal clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Thick paste of various colors

Odor: Characteristic odor.

Odor threshold: Not determined	pH: Not determined
Melting point/freezing point: Not determined	Initial boiling point and boiling range: Not determined
Flash point: Not determined	Evaporation rate: Not determined
Flammability (solid, gas): Not applicable	UEL: Not determined
Flammable limits: LEL: Not determined	Vapor density: Not determined
Vapor pressure: Not applicable	Solubility(ies): Not determined
Relative density: Not determined	Auto-ignition temperature: Not determined
Partition coefficient: n-octanol/water: Not determined	Viscosity: Not determined
Decomposition temperature: Not determined	

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal storage and handling conditions.

Chemical stability: Stable under normal storage and handling conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to avoid: Avoid extreme temperatures.

Incompatible materials: Chlorine trifluoride, fluorine, oxygen difluoride, strong oxidizing agents, strong bases and strong acids.

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Hazardous decomposition products: Hazardous decomposition may produce oxides of silicon, carbon monoxide, carbon dioxide, aldehydes, alcohols, ethers, hydrocarbons, ketones, organic acids, polymer fragments, metal oxides and formaldehyde.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:

Inhalation: Inhalation is not expected due to the viscous nature of this product. Inhalation of mist may cause respiratory irritation.

Ingestion: Ingestion may cause gastric upset, nausea and vomiting.

Skin contact: None expected under normal use conditions. Prolonged contact may cause irritation.

Eye contact: Contact may cause irritation, redness and tearing. Corneal injury is unlikely.

Chronic effects from short- and long-term exposure: Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated.

Numerical measures of toxicity:

Non-hazardous ingredients: No data available.

Diamond: Oral rat LD50 > 2000 mg/kg, inhalation rat LC50 > 5.2 mg/L, dermal rat LD50 > 2000 mg/kg

Carcinogenicity: None of the components are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Diamond: *Oncorhynchus mykiss* LC50 > 100 mg/L/96hr

This product is not expected to be hazardous to the environment.

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

Bioaccumulative potential: No data available

Mobility in soil: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
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DOT	None	Not Regulated	None	None	None
TDG	None	Not Regulated	None	None	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None identified.

15. REGULATORY INFORMATION

SARA Section 311/312 Hazard Categories: Refer to Section 2 for the OSHA Hazard Classification.

SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting):

Components	C.A.S. #	WT %
None		

This SDS has been prepared in accordance with US OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 1 Instability = 0
HMIS Rating: Health = 1 Flammability = 1 Physical Hazard = 0

Date of Revision: 08/07/24

The information and recommendations set forth are taken from sources believed to be accurate. Radiac Abrasives, Inc., a Tyrolit Company, makes no warranty with respect to the accuracy of this information or the suitability of these recommendations, assumes no liability to any user thereof. It is the responsibility of the user to investigate and understand pertinent sources of information to comply with all laws and procedures applicable to the safe use and handling of the product and to determine the suitability of the product for its intended use.

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This product is not classified as hazardous per OSHA Hazcom 2012 and Canadian WHMIS 2015.

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