

SAFETY DATA SHEET PCD TOOLS

Section 1 - Chemical Product and Company Identification

Company's Name: CERATIZIT India Pvt. Ltd.

Company's Address: 16J, Attibele Industrial Area, Anekal Taluk \ Bengaluru 562 107 \ India

Site address: 16J, Attibele Industrial Area, Anekal Taluk \ Bengaluru 562 107 \ India

Company's phone no. +91 80 6772 8000 Company's fax no. +91 80 6772 8100

Web Site: www.ceratizit.com

Trade Name: Polycrystalline Diamond (PCD)

Section 2 - Hazards Identification

2.1 GHS classification of the substance/mixture and any national or

regionalGHS classification Not applicable Any national or regional Not applicable

2.2 GHS label elements, including precautionary statements

2.2.1. Symbols No data available

2.2.2. Signal word No data available

2.2.3. Hazard statement No data available

2.2.4. Precautionary statements

PreventionNo data availableResponseNo data availableStorageNo data availableDisposalNo data available

2.3 Other hazards which do not result in classification

NFPA Grade (0 - 4)

Chemical Name	Health	Fire	Reactivity
Diamond	1	0	0
Cobalt	2	3	0
Tungsten Carbide	1	3	0

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Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	% BY WEIGHT	OSHA PEL-TWA	ACGIH TLV-TWA
7782-40-3	Diamond	30-100	-	-
7440-48-4	Cobalt	1-30	0.1mg/m ³	0.02mg/m ³
12070-12-1	Tungsten Carbide	0-70	5mg/m³	5mg/m³

Section 4 - First Aid Measures

4.1. Eye contact

- immediately call a POISON CENTER/doctor
- If eye irritation persists: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2. Skin Contact

- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- Wash with water and soap.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

4.3. Inhalation

- If exposed or concerned: Get medical advice/attention.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- if breathing is difficult, give oxygen and continue to monitor.

4.4. Ingestion

- If swallowed: Immediately call a POISON CENTER/doctor.
- Rinse the mouth.

4.5. Indication of immediate medical attention and special treatment needed

- Notify to medical team or managers and do appropriate measures.

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Section 5 - Fire Fighting Measures ______ **5.1. General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is non-combustible. 5.2. Extinguishing Media: Substance is non-combustible; use agent most appropriate to extinguish surrounding fire. 5.3. Flash Point: Not applicable. **5.4.** Autoignition Temperature: Not applicable. 5.5. Explosion Limits, Lower: Not available. 5.6. Explosion Limits, Upper: Not available. 5.7. Condition of Flammability: Requires & continuous flame source to ignite and sustain combustion/explosion Section 6 - Accidental Release Measures ______ 6.1. General Information: Use proper personal protective equipment as indicated in Section 8. 6.2 Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating

dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

- 7.1 Handling: wear protective gloves. Wear safety glass with side shields or chemical goggles. Avoid contacting and avoid breathing the material. Use only in a well-ventilated area. Wash thoroughly after handling
- 7.2 Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. No special precautions indicated.

Section 8 - Exposure Controls, Personal Protection ______

8.1. Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash

facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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8.2. Personal Protective Equipment.

- **8.2.1. Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- 8.2.2. Skin: Wear appropriate protective gloves to prevent skin exposure.
- **8.2.3. Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- **8.2.4. Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

- **9.1 Appearance:** Polycrystalline diamond on a tungsten carbide back
- 9.2 Odor: Not available
- 9.3 Boiling Point: Not available
- 9.4 Melting Point: Not available
- 9.5 Vapor Pressure (mmHg): Not available
- 9.6 Vapor Density (Air=1): Not available
- 9.7 Specific Gravity (Water=1): >3.5g/cc
- 9.8 Evaporation Rate and Ref: Not available
- 9.9 Solubility in Water: Insoluble
- 9.10 Percent Volatiles by Volume: Not available
- 9.11 pH: Not available

Section 10 - Stability and Reactivity

- 10.1. Chemical Stability: Stable.
- 10.2. Conditions to Avoid: Excess heat & strong acids
- 10.3. Reactivity: Not reactive under recommended conditions of handling, storage, processing, and use.
- 10.4. Incompatibilities with Other Materials: None.

Section 11 - Toxicological Information

11.1. Health hazards information

11.1.1	Skin corrosion/irritation	No data available
11.1.2	Eye damage/irritation	No data available
11.1.3	Sensitization – Respiratory	No data available
11.1.4	Sensitization – Skin	No data available
11.1.5	Germ cell mutagenicity	No data available
11.1.6	Carcinogenicity	No data available
11.1.7	Toxic to reproduction	No data available
11.1.8	Specific target organ toxicity (Single exposure)	No data available
11.1.9	Specific target organ toxicity (Repeated exposure)	No data available
11.1.10	Aspiration Hazard	No data available
11.1.11	Acute toxicity	No data available

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11.2 Other adverse effects

Cobalt and Tungsten: Inhalation exposure to cobalt dust can produce two types of lung conditions: interstitiallung disease (hard metal disease) or occupational asthma (hypersensitivity allergic obstructive airways syndrome). Skin exposure can result in an allergic red rash (cobalt itch). Cobalt is an anticipated human carcinogen based on animal studies (IARC Group 2B).

Tungsten and tungsten compounds in the presence of cobalt have been associated with hard metal disease and occupational asthma.

Section 12 - Ecological Information

12.1. EcotoxicityNo data available12.2. Persistence and degradabilityNo data available12.3. Bio accumulative potentialNo data available12.4. Mobility in soilNo data available

12.5. Other adverse effects. No data available

Section 13 - Disposal Considerations

13.1. General Information: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

13.2. Waste Disposal: Recycling is encouraged.

Section 14 - Transport Information

Regulatory Status: Not Regulated

Section 15 - Regulatory Information

15.1. Indian Regulations

	Diamond	Cobalt	Tungsten Carbide
ALISH	-	Acceptable concentration	-
ALNCM	-	-	
SALHM	-	-	-

ALISH: The Administration Law for Industrial Safety and Health.

ALNCM: The Administration Law for Noxious Chemical Materials.

SALHM: The Administration Law for Hazardous Materials.

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15.2. American regulations

	Diamond	Cobalt	Tungsten Carbide
CERCLA 103	-	-	-
SARA 302	-	-	-
SARA 304	-	-	-
	Acute-No	Acute-Yes	Acute-No
	Chronic-No	Chronic-Yes	Chronic-No
SARA 311/312	Fire-No	Fire- Yes	Fire-Yes
	Responsibility-No	Responsibility-No	Responsibility-No
	Sudden Discharge-No	Sudden Discharge-No	Sudden Discharge-No
SARA 313	-	Cobalt	-
OSHA	-	-	-

The State of America's Regulation

	Diamond	Cobalt	Tungsten Carbide
Californian Proposal Article 65	-	07 01,1992	-

Californian Proposal Article 65: The regulation for the treatment of drinkable water.

European Union's Regulation

	Diamond	Cobalt	Tungsten Carbide
EU classification	-	-	-

EU classification may not match with it exactly as it's according to independent surveys.

The List of National Material

	Diamond	Cobalt	Tungsten Carbide
TSCA	Available	Available	Available
TSCA 12(b)	N/A	N/A	N/A

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Section 16 - Additional Information

The MSDS, partly revised and quoted from the MSDS possessed by American MDL, is provided by India Occupational Safety & Health Agency in order to prevent the labor's health impediment against chemical materials. This MSDS is not designed for any other use or for use by any other person. CERATIZIT India doesn't warrant the suitability for use of the MSDS for any other material or product that is not specifically identified herein. CERATIZIT India doesn't warrant the accuracy or authenticity of this MSDS if it has not been obtained directly from CERATIZIT India or viewed on a CERATIZIT India website. CERATIZIT India has no responsibility or warranty for a particular commercial purpose, either expressed or implied. Every user should read and be informed well to incorporate the MSDS into individual site as it's required by each other's hazard communication standards and regulations.

All the information in MSDS is permitted to use internal purpose only while not permitted externally and commercially. In case MSDS is used for external purpose, you may be punished by a relating regulation like intellectual property rights.

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