

Material Safety DATA SHEET

DOCUMENT NO.: 528 | DATE PUBLISHED: 05/31/15



For chemical emergency spill, leak, fire, exposure or accident call (CHEMTREC) 800-424-9300. This MSDS complies with 29 CFR 1919.1200 (The Osha Hazard Communication Standard).

Section 1: Identification

Product / Chemical Name:

Diamond tools (Grinding Cup)

Product Identification No: Grinding cup wheel (Metal bonded diamond wheel)

Chemical Family: N/A

Trade Name and Synonyms: Diamond tools (Grinding Cup)

Molecular Weight: N/A

Chemical Name: N/A

Chemical Formula: N/A

Material Use: N/A

Application: Grinding brittle materials (Stone, Tile, Concrete, etc.)

See the table on the product package.

Distributor Name:

Alpha Professional Tools®

Address:

103 Bauer Drive, Oakland, NJ 07436

Emergency Tel. No.:

800-648-7229

Section 2: Hazard(s) Identification

GHS Classification : Not applicable

Unclassified Hazards : Not applicable

Percentage of Ingredients with Unknown Toxicity : 0%

Abrasives are not dangerous substances or preparations

See also section 8.

Section 3: Composition/Information on Ingredients

Name	CAS	Concentration area (wt%)
Diamond	7782-40-3	0.1-1.0
Cobalt	7440-48-4	0-4.0
Copper	7440-50-8	1.0-7.0
Nickel	7440-02-0	0.5-4.0
Tin	7440-31-5	0.1-3.0
Iron	7439-89-6	75.0-85.0
Tungsten	7440-33-7	0-1.5
Silver	7440-22-4	0-0.7
Carbon	7440-44-0	0-1.0
Silicon	7440-21-3	0-1.0

The specific percentages of composition have been withheld as trade secrets.

Section 4: First-Aid Measures

See also section 8

Inhalation: Not possible, due to the form of the product

Eye contact: Not possible, due to the form of the product

Skin contact: No harmful effects known

Ingestion: Not likely, due to the form of the product

If necessary contact physician

Most important: Not applicable

Symptoms:

Immediate medical: Not applicable

Attention Required:

Copyright © 2015 Alpha Professional Tools. All rights reserved.



Section 5: Fire-Fighting Measures

Extinguishing Media: water, foam, sand, powder or CO2 as appropriate for surrounding materials

Specific hazards arising: Toxic fumes may occur.

Specific protective equipment for fire-fighters: Use respiratory protective equipment.

Section 6: Accidental Release Measures

Personal precautions: Not applicable.

Methods and materials for cleaning up: Not applicable.

Section 7: Handling and Storage

Precautions for safe handling: Follow instructions and the relevant national regulations.

Conditions for safe storage: Observe the safety recommendations of the manufacturer.

Section 8: Exposure Controls/Personal Protection

Before grinding risk assessment should be performed and individual personal protection measures adopted accordingly.

8.1 Exposure Limits Keep limits of the following components under surveillance

(Observe the regional official regulations for dust)

Name	CAS	OSHA PEL	ACGIH TLV
Cobalt	7782-40-3	0.1 mg/m ³	0.02 mg/m ³
Copper	7440-50-8	0.1 mg/m ³	0.2 mg/m ³
Nickel	7440-02-0	1.0 mg/m ³	1.5 mg/m ³
Tin	7440-31-5	0.1 mg/m ³	0.1 mg/m ³
Tungsten	7440-33-7		5.0 mg/m ³
Silver	7440-22-4	0.01 mg/m ³	0.1 mg/m ³
Carbon	7440-44-0	3.5 mg/m ³	3.0 mg/m ³
Silicon	7440-21-3	5.0 mg/m ³	10.0 mg/m ³
Cadmium	7440-43-9	0.2 mg/m ³	0.01 mg/m ³

Note: Hazardous dust of work piece material may be generated during grinding and/or cutting operations.

8.2. Exposure control and limitations

8.2.1. Exposure control and limitations of the work environment Observe the regional official regulations for dust

8.2.1.1. Respiratory protection: Use respiratory equipment (type depends on specific application and material being ground)

8.2.1.2. Hand protection: Wear protective gloves (type depends on specific application and material being ground)

8.2.1.3. Eye protection: Wear protective hats, goggles or face shield (type depends on specific application and material being ground)

8.2.1.4. Hearing protection: Use hearing protection (type depends on specific application and material being ground)

8.2.1.5. Body protection: Use protective clothing (type depends on specific application and material being ground) Work piece material (Since the silica(SiO₂) occurs within material of concrete, stone, tile, etc., wear protective equipment in processing)

Section 9: Physical and Chemical Properties

9.1 Physical state: Solid

9.2 Color: Variable

9.3 Solubility in water: Not defined

9.4 Odor: Not defined

9.5 Odor threshold: Not defined

9.6 pH: Not defined

9.7 Melting point: Not defined

9.8 Boiling point: Not defined

9.9 Flash point: Not defined

9.10 Evaporation rate: Not defined

9.11 Flammability: Not defined

9.12 Flammability limits: Not defined

9.13 Vapor pressure: Not defined

9.14 Vapor density: Not defined

9.15 Relative density: Not defined

9.16 Partition coefficient: Not defined

9.17 Auto-ignition temp.: Not defined

9.18 Decomposition temp.: Not defined

9.19 Viscosity: Not defined

Section 10: Stability and Reactivity

Stability

Super Abrasives are stable when handled or stored

Reactivity

10.1 Conditions to avoid:

No decomposition in normal use.

10.2 Materials to avoid:

No dangerous reactions known.

10.3 Hazardous decomposition products:

At temperatures exceeding 250 C hazardous or toxic decomposition products may be generated

Section 11: Toxicological Information

No toxicological effects if inhaled or swallowed or with eye or skin contact are known.
See also section 8.

Section 12: Ecological Information (non-mandatory)

12.1 Ecotoxicity: no effects known

12.2 Mobility: no potentials known

12.3 Persistence and degradability: no biodegradable potentials known

12.4 Bioaccumulative potential: no potentials known

12.5 Other hazardous effects: no effects known

Section 13: Disposal Considerations (non-mandatory)

13.1 Product

Follow national and regional regulations!

○ - Due to the ingredients (sum concentration under the limit) disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),

○ - Due to the ingredients (sum concentration above the limit) disposal as hazardous waste (2000/532/EC) (EWC – Nr. 120120)

13.2 Packing

Follow national and regional regulations!

Section 14: Transport Information (non-mandatory)

The product is not covered by international regulation on the transport of dangerous goods.

Section 15: Regulatory Information (non-mandatory)

TSCA Inventory: All ingredients are listed on the TSCA inventory or are exempt from listing.

CA Proposition 65: Nickel and cadmium are known to the State of California to cause cancer or reproductive toxicity

Section 16: Other Information

Date Prepared : August 29, 2014