



SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Dedeco International, Inc.

11617 State Route 97

Long Eddy, NY 12760

Telephone No.: 845-887-4840

Product Name: Carbide Burs

Effective Date: 11/01/15

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

Primary Routes of Entry

- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

Human Effects and Symptoms of Overexposure

Skin

Can cause irritation or an allergic skin rash due to cobalt sensitivity. Certain skin conditions such as dry skin may be aggravated by exposure.

Ingestion

Reports outside the industry suggest that ingestion of significant amounts of cobalt has the potential for causing blood, heart and other organ problems.

Inhalation

Dust from grinding can cause irritation of the nose and throat. It also has the potential for causing transient or permanent respiratory disease, including occupational asthma in a small percentage of exposed individuals. It is reported that cobalt dust is the most probable cause of such respiratory diseases. Symptoms including coughing, wheezing, shortness of breath, chest tightness and weight loss. Certain pulmonary conditions may be aggravated by exposure.

Eyes

Can cause irritation.

Carcinogenicity

No carcinogenic substances are defined by IARC, NTP and /or OSHA.

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% By Weight</u>
Tungsten Carbide (limits for Tungsten dust)	5mg/m ³	5mg/m ³	41 -- 97%*
Cobalt**	.01mg/m ³	0.2mg/m ³	3 – 30%*
Tantatum Carbide (limits for Tantatum dust)	5mg/m ³	5mg/m ³	0.0 – 52%*
Chromium Carbide (limits for Chromium dust)	.05mg/m ³	0.5mg/m ³	0.0 – 5.1%*
Titanium Carbide (limits for Titanium dust)	5mg/m ³	none established	0.0 – 20.0%*
Niobium Carbide (limits for Niobium dust)	5mg/m ³	5mg/m ³	0.0 – 20.0%*

*Depends on grade specifications

** Identifies substances that are subject to the requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 and 40 CFR Part 372.

SECTION 4**FIRST AID MEASURES**

Eye Contact

If irritation occurs flush with copious amounts of water. If irritation persists seek medical attention.

Skin Contact

If irritation or rash occurs thoroughly wash affected area with soap and water and isolate from exposure. If irritation or rash persists seek medical attention.

Inhalation

If symptoms of pulmonary involvement develop (coughing, wheezing, shortness of breath, etc.) remove from exposure and seek medical attention.

Ingestion

If substantial quantities are swallowed dilute with copious amounts of water, induce vomiting and seek medical attention.

SECTION 5**FIRE FIGHTING MEASURES**

Suitable Extinguishing Media

For powder fires smother with dry sand, dry dolomite, ABC type fire extinguisher or floor with water.

Special Fire Fighting Procedures

For powder fires confined to a small area, use a respirator approved for toxic dusts and fumes. For a large fire fire fighters should use self-contained breathing apparatus.

Unusual Fire/Explosion Hazards

Hard cemented carbide product is not a fire hazard. Dust generated in grinding operations may present a fire or explosion hazard under rate conditions due to particle size, dispersion and strong ignition source. However, this is not reported to be a problem under normal handling and use.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Spill and Leak Procedures

Ventilate area of spill. Clean up using methods which avoid dust generation such as vacuum (with appropriate filters to prevent airborne dust levels exceeding the PEL or TLV) or wet clean-up. If airborne dust is generated use an appropriate NIOSH approved respirator.

SECTION 7**HANDLING & STORAGE**

Handling/Storage Precautions

Maintain good housekeeping procedures to prevent dust accumulation during grinding. Avoid dust inhalation and direct skin contact with dust.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Industrial Hygiene

Wash hands thoroughly after handling, before eating or smoking. Wash exposed skin at the end of the work shift. Do not shake clothing, rags, or other items to remove dust. Dust should be removed by washing or vacuuming the clothing, rags or other items with appropriate filters.

Ventilation Measures

Use adequate exhaust ventilation to limit personal exposure to airborne dust to levels below the PEL or TLV. If such equipment is not available use respirators as specified above.

Respiratory Protection

Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the applicable PEL or TLV. All requirements set forth in 29 CFR 1910.134 should be met.

Hand Protection

Protective gloves or barrier cream are recommended when contact with dust or mist is likely.

Eye Protection

Safety glasses with side-shields or goggles are recommended. Eyewash equipment should be available and accessible at the workplace.

Additional Protective Measures

Periodic medical examinations are recommended for individuals regularly exposed to dust or mist.

SECTION 9**PHYSICAL & CHEMICAL PROPERTIES**

- **Color** – Dark Gray or Gold
- **Appearance** - Dark Gray or Gold
- **Odor** - Odorless
- **Solubility in Water** – Insoluble
- **Specific Gravity** – 11.0 to 15.5

- **Percentage Volatile by Volume** – 0
- **How Best Monitored** – Air Sample

Not applicable: Boiling Point, Vapor Pressure (mm Hg.), Vapor Density (Air=1), Evaporating Rate.

SECTION 10 **STABILITY & REACTIVITY**

Hazardous Reactions – Hazardous polymerization will not occur.

Stability – Stable.

Materials to Avoid – Strong acids, strong oxidizers.

Conditions to Avoid – Contact with incompatible materials.

Hazardous Decomposition Products – None.

SECTION 11 **TOXICOLOGICAL INFORMATION**

Not applicable.

SECTION 12 **ECOLOGICAL INFORMATION (non-mandatory)**

Not applicable.

SECTION 13 **DISPOSAL CONSIDERATIONS (non-mandatory)**

Waste Disposal Method

Dispose of accordance with applicable government regulations.

SECTION 14 **TRANSPORTATION INFORMATION (non-mandatory)**

Not applicable.

SECTION 15 **REGULATORY INFORMATION (non-mandatory)**

Not applicable.

SECTION 16 **OTHER INFORMATION (non-mandatory)**

Not applicable.