

## Material Safety Data Sheet

### 2. Hazards Identification

This product is a gray metal with no odor

Dust particles or filings can cause irritation or abrasive injury to the eyes. Inhalation of dust may cause respiratory irritation.

### 3. Composition of Ingredients

Name	Ingredients	Percentage(%)	CAS No.
Tungsten carbide head	WC	90.0~94.0	12070-12-1
	Co	6.0~10.0	7740-48-4
Steel shank	Fe	Balance	7439-89-6
	Cr	0.80~1.10	7440-047-3
	C	0.37~0.44	7440-440-0
	Si	0.17~0.37	7440-21-3
	Mn	0.50~0.80	7439-96-5

### 4. Physical and chemical properties

Cemented carbide:

Melting point: 1495 Celsius

Boiling Point: 2927 Celsius

Boiling Point: Not Applicable

Solubility in Water: Insoluble

Flammable Limits: Not Applicable

Flash Point: Non-combustible

Evaporation Rate: Not Applicable

Density: 14.4-15g/cm<sup>3</sup>

Appearance and Odor: Grey metal, no odor

### 5. First Aid Measures for dusts or mists

Ingestion: if Dust is swallowed, dilute with a large amount of water, induce vomiting, and seek medical attention.

Inhalation: If symptoms of pulmonary involvements happen(coughing, wheezing, shortness of breath,

etc), remove from exposure to fresh air and get medical attention.

Eye Contact: If irritation occurs, flush the eyes thoroughly with water , if irritation persists, seek medical attention. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: Wash dust from skin with soap and water. Launder the contaminated clothing before reuse. If irritation occurs, seek medical attention.

## 6. Fire Fighting Measures

Hard cemented carbide product is not a fire hazard. Dusts generated in grinding operation may ignite if allowed to accumulate and subjected to an ignition source.

Extinguishing media: Use any media that is appropriate for the surrounding fire.

Unusual fire and explosion hazards: This product is not combustible, however, consideration must be given to the potential fire/ explosion hazards from the base from being processed. Many materials create flammable/ explosive dusts or filings when machined or ground.

Hazardous combustion Products: None known.

## 7. Special protection information

Respiratory protection: Use the authorities approved respirator if exposure limits are exceeded or where dust exposures are excessive. Consider the potential for exposure to components of the coatings or base material being machined or ground in selecting proper respiratory protection.

Selection of respiratory protection depends on the contaminant type, form and concentration.

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the low concentration of contaminants.

Gloves: Cloth or leather gloves recommended.

Eye protection: Safety goggles or safety glasses with side shields should be worn.

Others: make sure tools are seated properly and safely clamped or held in place. Use machine guards and wear safety glasses and protective clothing to prevent injury in the event of tool breakage.

## 8. Stability and Reactivity

Stability: Stable

Incompatibility: No materials

Hazards Decomposition Products: None

Hazardous Polymerization: no materials

## 9. Toxicological Information

Health Hazards:

Ingestion: None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.

Inhalation: Dust may cause respiratory irritation.

Skin: Rubbing products across the skin may cause mechanical irritation or abrasions. Nickel exposure can cause allergic dermatitis called nickel itch. Chromium and cobalt exposure can cause skin irritation and skin sensitization.

Sensitization: Nickel, chromium and cobalt can cause skin and respiratory sensitization.

Chronic: Long term overexposure to respirable dust may cause lung damage with symptoms of coughing, shortness of breath and diminished breathing capacity.

#### 10. Ecological Information

No ecological data is available for this product. No hazards to environment are expected from this product. However, consideration must be given to potential environment effects when being processed.

#### 11. Disposal Considerations

Dispose in accordance with all applicable local and national regulations. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of material to determine the proper waste identification and disposal in compliance with applicable regulations.

#### 12. Transport Information

Proper shipping name: No regulated

Hazard class: None

Packing Group: None

Labels required: None

#### 13. Regulatory information

Not accessible