



SDS Number: Tungsten Carbide Burr  
Revision Date: 4/3/2025

## SAFETY DATA SHEET

This Safety Data Sheet (SDS) covers welding consumables and related products and complies with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Superfund Amendments and Reauthorization Act (SARA) of 1986. Refer to the OSHA standard for specific requirements. This SDS is available on our website at [www.forneyind.com](http://www.forneyind.com), through your sales representative, or by contacting customer service at 1-800-521-6038.

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION:

**Manufacturer/Supplier:** Forney Industries, Inc.  
**Address:** 2057 Vermont Drive Fort Collins, CO 80525  
**Website:** [www.forneyind.com](http://www.forneyind.com)  
**Email:** [CustomerService@forneyind.com](mailto:CustomerService@forneyind.com)

**Phone Number:** +1 (800) 521-6038

**USA Emergency Phone Number:** +1 (800) 535-5053

**International Emergency Phone Number:** +1 (352) 323-3500

**Trade Name:** Tungsten Carbide Burr

**AWS Specification:**

**Recommended Use:**

**Restrictions on Use:**

**Forney ITEM#'s:** 60120, 60121, 60122, 60123, 60124, 60125, 60126, 60127, 60135, 60136, 60137, 60138, 60139, 60140, 60141, 60142, 60143, 60144, 60145, 60146, 60147, 60148, 60149, 60150, 60151, 60152, 60153, 60154, 60158, 60162, 60163, 70340, 70341, 70342, 70343, 72111

### SECTION 2 – HAZARDS IDENTIFICATION:

**Chemical Properties:** This product is 90-94 percent tungsten carbide and 6-10 percent cobalt. Both of these metal products are listed on OSHA and ACGIH as hazardous elements.

**Appearance:** Shiny silver gray cylindrical shaped metal with varying colors of surface coating on the edges.

**Article Exemption:** This product meets the definition of an article under 29 CFR 1910.1200(c), which states: Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:

Substance Name	Amount by Weight*	CAS Number	OSHA TLV	ACGIH
Tungsten Carbide	90 – 94%	12070-12-1	5 mg/cubic meter	5 mg/cubic meter



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Cobalt	6 – 10%	7440-48-4	0.05 mg/cubic meter	0.05 mg/cubic meter
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\* Depends on grade specifications

### SECTION 4 – FIRST AID MEASURES:

**Inhalation:** If symptoms of pulmonary involvement develop, such as: coughing, wheezing, shortness of breath, remove the affected person from exposure and seek medical attention.

**Skin Contact:** If irritation or rash occurs, thoroughly wash the affected area with soap and water and isolate the area from exposure. If the irritation or rash persists, seek medical attention.

**Eye Contact:** If irritation occurs, flush with copious amounts of water. If irritation persists, seek medical attention.

**Ingestion:** If substantial quantities are swallowed, dilute with a large amount of water, induce vomiting, and seek medical attention.

### SECTION 5 – FIRE-FIGHTING MEASURES:

**Extinguishing Media:** Mixture is non-flammable. Extinguishing methods depend upon the hazards in the vicinity. Use water or dry extinguishing powders, sand, CO<sub>2</sub> or other inert material as extinguishing media. Do not use water if any water-reactive metal powders are nearby.

**Special Hazards Arising from the Substance or Mixture:** Under rare conditions of particle size, dispersion, concentration, and strong ignition source, tungsten carbide and cobalt powders or dust may present a fire or explosion hazard.

**Advice for Fire Fighters:** Fire fighters should wear proper protective equipment and self-contained breathing apparatus appropriate to the surrounding fire conditions.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES:

This section does not apply to solid carbide cutting tools.

### SECTION 7 – HANDLING AND STORAGE:

No special handling or storage is needed for solid carbide cutting tools.

### SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION:

**Control Parameters:** This is a non-combustible, non-reactive solid material. No special monitoring procedures or environmental controls are required.

**Exposure Controls – Ventilation:** General ventilation requirements under normal and intended conditions of product use.

**Personal Protective Equipment:** Respiratory protection for dust and fumes recommended.

**Eye Protection:** Safety glasses with side shields are recommended when carbide cutting tools are being used. **Skin Protection:** No special protective clothing is required while handling cemented carbide.

**Hygiene:** Workers should wash their hands before eating, drinking, and smoking.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:



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Appearance and Odor:	Dark Gray/No Odor
Vapor Pressure (mm Hg):	N/A
Solubility in Water:	Insoluble
Percent Volatile by Volume:	0
How Best Monitored:	Air Sample
Boiling Point:	N/A
Vapor Density (Air = 1)	N/A
Specific Gravity (H <sub>2</sub> O = 1):	11.0 to 15.5
Evaporation Rate:	N/S

### SECTION 10 – STABILITY AND REACTIVITY:

Stability: Stable

Incompatibility: Contact of dust with strong oxidizers may cause fires or explosions.

Hazardous Decomposition Products: None Hazardous

Polymerization: Will not occur.

Conditions to Avoid: Contact with incompatible materials.

Materials to Avoid: Strong acids, strong oxidizers.

### SECTION 11 – TOXICOLOGICAL INFORMATION:

Acute Toxicity: May cause eye, skin, and respiratory irritation when reduced to fine powder form.

Chronic Health Effects: None known. National Toxicology Program:

Yes ( ) No (X)

I.A.R.C. Monographs: Yes ( ) No (X)

OSHA: Yes ( ) No (X)

LD50/LC50: Not available

### SECTION 12 – ECOLOGICAL INFORMATION:

Environmental Effects: No known significant effects or critical hazards.

Mobility: Product is not hazardous to water.

Other Adverse Effects: No known significant effects or critical hazards.

AOX: The product does not contain organically bound halogens, which could lead to an AOX value in wastewater.



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### SECTION 13 – DISPOSAL CONSIDERATIONS:

Methods of Disposal: Not hazardous waste. Disposal of this product should always comply with the requirements of environmental protection and waste disposal legislation and can be reclaimed by any metal reclamation company.

Hazardous Waste: To the suppliers' knowledge, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

### SECTION 14 – TRANSPORT INFORMATION:

No special transportation or handling is required for solid carbide cutting tools.

International Transport Regulations: ADR/RID/IMDG/IATA classes: Not regulated by any transport mode.

US DOT Information: Hazard Class: None

UN/NA #: None Required Labels: None

TDG Information: Hazard Class: None

UN/NA #: None

Required Labels: None

### SECTION 15 – REGULATORY INFORMATION:

Solid carbide cutting tools are not a regulated product.

### SECTION 16 – OTHER INFORMATION:

#### User's Responsibilities

This Safety Data Sheet (SDS) provides information consistent with recommended applications for these products and anticipated activities involving the product. It is the user's responsibility to identify and protect against health and safety hazards presented by modification of hard metal powders and products after manufacture. Individuals handling hard metal powders should be informed of all relevant hazards and recommended safety precautions and should have access to the information contained in this SDS.

#### Disclaimer

The information contained herein is based upon data provided by manufacturers and suppliers of raw materials used in the manufacture of hard metal powders. The information is offered in good faith as accurate and correct, but no representations, guarantees, or warranties of any kind are made as to its accuracy or completeness, suitability for applications, hazards connected with the use of the powder, or the results to be obtained from the use thereof.

The user assumes all risk and liability of any use or handling of any material beyond Forney control. Variations in methods, conditions, equipment used to store, handle, or process the material, and hazards connected with the use of the powder are solely the responsibility of the user and remain at its sole discretion.

This SDS is intended to be used solely for the purpose of satisfying informational requests made pursuant to Title 29 of the Code of Federal Regulations, Section 1910.1200 et seq. It is not intended to pre-empt, replace, or expand the terms contained in the Forney Conditions of Sale. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe workplace, to examine all aspects of its operation, and to determine if or where precautions, in addition to those described herein, are required. This information may not be valid for these powders when



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manufactured with alternate materials meeting the special requirements of a particular user.