

## Material Safety Data Sheet (MSDS)

### 1 Identification of the substance and of the company

- .**Product name:** Metal-Bond Diamond Grinding Tools
- .**Manufacturer/Supplier:** Ashine Diamond Tools Co.,Ltd
- .**Address:** 12D,88Xiangyu Road,Xiamen,Fujian,China
- .**Tel:** +86-592-5688 997
- .**E-Mail:** ashine-service@ashinetools.com
- .**Further information obtainable from:** Ashine Diamond Tools Co.,Ltd
- .**Emergency Telephone Number:** +86-592-5688 185
- .**Contact:** Lin Xiaoyu

### 2 Hazards identification

- .**NFPA ratings (scale 0 - 4)**



Health = 0; Fire = 0; Reactivity = 0

- .**Classification of the substance or mixture**
- .**Classification according to GHS :** Not classified as dangerous goods.
- .**Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.
- .**Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):**  
The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
- .**Labelling according to Regulation (EC) No 1272/2008 and GHS:** Not applicable.
- .**Hazard pictograms:** Not applicable.
- .**Signal word:** Not applicable.
- .**Hazard statements:** This mixture is considered as non dangerous mixture according to the GHS.
- .**Precautionary statements:** Not applicable.
- .**Other hazards:** See section 11.
- .**Results of PBT and vPvB assessment :** Not applicable.
- .**Potential Health Effects:** This products in their solid state under normal conditions, do not present an inhalation, ingestion or skin hazard. However, operations resulting in particulate formation such as sawing, grinding and machining may present health hazards.
- .**Chronic or Special Toxic Effects:**
- .**CARCINOGENICITY:** IARC has classified crystalline silica as a human carcinogen.
- .**MUTAGENIC EFFECTS:** Not available.
- .**TERATOGENIC EFFECTS:** Not available.



### 3 Composition/information on ingredients

*.This product contains the following ingredient at levels subject to reporting requirements of:*

Components	CAS No.	Approximate by Wt. (%)	Air Exposure Limits (mg/m <sup>3</sup> )	
			ACGIH TLV (mg/m <sup>3</sup> )	OSHA PEL (mg/m <sup>3</sup> )
Cobalt (Co)	7440-48-4	37%	0.02 As Cobalt	0.1 Metal/Dust/Fume
Iron (Fe)	7439-89-6	10%	5 Oxide Dust/Fume	10 Oxide Dust/Fume
Nickel (Ni)	7440-02-0	3%	1.5 Metal	1Metal
Copper (Cu)	7440-50-8	10%	1 Dust, 0.2Fume	1 Dust, 0.1Fume
Tin (Sn)	7440-31-5	2%	2 Metal/Oxide and Inorganic compounds	2 Inorganic compounds
Tungsten carbide	12070-12-1	10%	Not Established	Not Established
Adamas	7782-40-3	28%	Not Established	Not Established

### 4 First aid measures

- .Eye Contact:* In case of overexposure to dusts or fumes, immediately flush eyes with plenty of water for a few minutes occasionally lifting the eye lids. Get medical attention if irritation persists.
- .Skin Contact:* In case of overexposure to dusts or particulates, wash with soap and plenty of water. Get medical attention if irritation develops or persists. If thermal burn occurs, flush area with cold water and get immediate medical attention.
- .Inhalation:* In case of overexposure to dusts or fumes, remove to fresh air. Get immediate medical attention if symptoms described in this MSDS develop.
- .Ingestion:* Not considered an ingestion hazard. However, if excessive amounts of dust or particulates are swallowed, Treat symptomatically and supportively. Get medical attention.

### 5 Fire-fighting measures

- .Flammable Limits (% volume in air):*Not applicable
- .Autoignition Temperature:* Not applicable
- .Extinguishing Media:* For molten metal, use powder or sand.
- .Special Fire Fighting Procedures:* Do not use water on molten metal. Firefighters should not enter confined spaces without wearing NIOSH/MSHA approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.
- .Unusual Fire or Explosion Hazards:* Not applicable

### 6 Accidental release measures

- .Precautions if Material is Spilled or Released:* This product is solid, Small leak is meaningless, where have scattered on the ground only need to clean up it, Scrap should be reclaimed for recycling.

**.Environmental Precautions:** Product may contain reportable quantities of alloying elements.

**.Waste Disposal Methods:** Dispose unused product in accordance with applicable Federal, State, and Local regulations.

## 7 Handling and storage

**.Storage Temperatures:** Stable under normal temperatures and pressures.

**.Precautions to be Taken in Handling and Storing:** Store in a dry place ,keepaway from strong acids and strong oxidizers ,  
Avoid breathing dusts or fumes.

## 8 Exposure controls/personal protection

**Operations with potential for generating high concentrations of airborne particulates or fumes should be evaluated and controlled as necessary.**

**.Eye Protection:** Generally do not need. Dust resistant safety goggles are recommended under circumstances where particles  
Could cause mechanical injury such as grinding or cutting.

**.Skin:** Generally do not need, When machine Appropriate protective gloves should be worn as necessary. Good personal  
hygiene practices should be followed Including cleansing exposed skin several times daily with soap and water and laundering  
or dry cleaning soiled work clothing.

**.Respiratory Protection:** NIOSH/MSHA approved dust/fume/mist respirator should be used to avoid excessive exposure. See  
Section 3 for component material information exposure limits. If such concentrations are sufficiently high that this respirator  
is inadequate, or high enough to cause oxygen deficiency, use a positive pressure self-contained breathing apparatus (SCBA)  
Follow all applicable respirator use, fitting, and training standards and regulations.

## 9 Physical and chemical properties

### **.General Information**

<b>Form:</b>	Solid
<b>Color:</b>	Blue
<b>Odor:</b>	Odorless

### **.Change in condition**

<b>Melting point/Melting range:</b>	Not available
<b>Boiling point/Boiling range:</b>	Not available

**.Tensile strength:** Not available

**.Elongation:** Not available

**.Reduction of area:** Not available

### **.Density:**

<b>.Relative density:</b>	7~9 (water=1)
<b>.Vapor density:</b>	Not available

### **.Solubility in/Miscibility with**

<b>Water:</b>	Insoluble
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## 10 Stability and reactivity

- .Stability: The product is stable.*
- .Conditions to Avoid: Metal at temperatures above the melting point may liberate fumes containing metal oxides.*
- .Incompatibility (Materials to Avoid): Reacts with strong acids to form hydrogen gas. Do not store near strong oxidizers.*
- .Hazardous Decomposition Products: Metallic fumes may be produced during welding, burning, grinding, and possibly machining or any situation with the potential for thermal decomposition.*

## 11 Toxicological information

- .Toxicity to Animals:*
  - LD50: Not available.*
  - LC50: Not available.*
- .Chronic Effects on Humans: Breathing fumes or dusts of this product may result in metal fume fever, which is an illness produced by inhaling metal oxides.*  
*These oxides are produced by heating various metals including cadmium, zinc, magnesium, copper, antimony, nickel, cobalt, manganese, tin, lead, beryllium, silver, chromium, aluminum, selenium, iron, and arsenic.*
- .Other Toxic Effects on Humans: None*

## 12 Ecological information

- .Aquatic Ecotoxicological Data: No specific information available on this product.*
- .Environmental Fate Data: No specific information available on this product.*

## 13 Disposal considerations

- .Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. Dispose in accordance with federal, state, and local health and environmental regulations. Prevent materials from entering drains, sewers, or waterways.*

## 14 Transport information

- .UN Proper Shipping Name: Not regulated*
- .UN Number : Not applicable*
- .Packing Group: Not applicable*
- .Marine Pollutant: Not.*
- .Hazardous Substance Reportable Quantity: Not available.*
- .DOT Hazard Classification: Not regulated*
- .ADR/RID Classification: Not controlled under ADR( Europe)*
- .IMO/IMDG Classification: Not Controlled under IMDG*
- .ICAO/IATA Classification: Not controlled under IATA.*

## 15 Regulatory information

- .This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, dusts and fumes from this product may be hazardous.*

**.CALIFORNIA PROPOSITION 65**

*This product may contains chemicals ( cadmium, lead ), known to the State of California to cause cancer and chemicals, (cadmium, lead) known to the State of California to cause birth defects or other reproductive harm. When the material used to californi proposition 65 related products should be concerned about cadmium and lead.*

**.Regulatory Lists :***Some components of this product may be specifically listed by individual states; other product-specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.*

**.Toxic Substances Control Act (TSCA):** *Some components are listed.*

**.WHMIS:** *Not controlled under WHMIS.*

**.DSCL:** *Not controlled under DSCL.*

**.REACH Regulation List of Substances of very high concern (SVHC) :** *None of the ingredients is listed.*

**.Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

**16 Other information**

*The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014:2009.*

**DISCLAIMER OF LIABILITY**

*The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.*

**• Abbreviations and acronyms:**

**ADR:** *Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).*

**RID:** *Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).*

**IMDG:** *International Maritime Code for Dangerous Goods.*

**IATA:** *International Air Transport Association.*

**ICAO:** *International Civil Aviation Organization.*

**TDG:** *Transportation of Dangerous Goods Program of Canada.*

**DOT:** *U.S. Department of Transportation.*

**GHS:** *Globally Harmonized System of Classification and Labelling of Chemicals.*

**CAS:** *Chemical Abstracts Service (division of the American Chemical Society).*

**ACGIH:** *American Conference of Governmental Industrial Hygienists.*

**NFPA:** *National Fluid Power Association.*

**TSCA:** *Toxic Substances Control Act.*

**LC50:** *Lethal concentration, 50 percent.*

**LD50:** *Lethal dose, 50 percent.*

**PBT:** *Persistent, Bioaccumulative and Toxic.*

**vPvB:** *very Persistent and very Bioaccumulative.*

*Sample photo:*



\*\*\*\*\*The End\*\*\*\*\*