

Virginia Abrasives Corporation

SAFETY DATA SHEET

SECTION 1 - Identification of the Product and Company

1.1 Product Name	Diamond Abrasives Toosl (including Diamond Cutting Wheels, and Diamond Grinding Blocks)
1.2 Product Use	Cutting and grinding of stone, concrete and other masonry materials
1.3 Company Details:	Virginia Abrasives
Address:	2851 Service Road Petersburg, VA 23805
Phone:	(800) 446-1805
Fax:	(800) 732-5336

SECTION 2 - Hazard Information

2.1 Precautionary statements

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product produces dust, debris particle and sparks during use. Use precautions to remove or guard flammable materials.

Grinding dusts may cause irritation, coughing, shortness of breath. May affect breathing capacity.

Water is normally used to cool the tools and to reduce dust. Dust generated during use is primarily from the materials being cut or ground.

Determine the hazard potential of materials being abraded by referring to MSDS or SDS for associated materials.

Store the product properly. If the product becomes damaged during use, discard, do not use.

SECTION 3 - Composition (may contain one or more of the following ingredients)

<u>Ingredient</u>	<u>Formula</u>	<u>% Weight</u>	<u>OSHA Regulated</u>	<u>Cas #</u>
Cobalt		0-30%	N/A	CAS 7440-48-4
Copper		0-30%	N/A	CAS 7440-50-8
Industrial diamond		10-30%	N/A	CAS 7782-40-3
Nickel		0-30%	N/A	CAS 7440-02-0
Silver		0-10%	N/A	CAS 7440-22-4
Tin		0-20%	N/A	CAS 7440-31-5
Tungsten		0-30%	N/A	CAS 7440-33-7
Tungsten Carbide		0-10%	N/A	CAS 12070-12-1

SECTION 4-First Aid

4.1 First Aid for exposure

Remove victim to fresh air, apply artificial respiration if needed. In case of eye contact, flush with large amounts of water. Obtain medical assistance if needed.

4.2 Signs and Symptoms of Exposure

Skin or eye irritation, coughing, shortness of breath.

SECTION 5 - Fire Fighting Measures

- 5.1 Means Of Extinction: NA
- 5.2 Unusual Fire or Explosion Hazards: None
Flammable Properties: None
- 5.3 Special Fire Fighting Procedures: NA

SECTION 6 - Accidental Release Measures

Normal clean up procedures. Use gloves eye protection and respiratory protection to prevent irritation.

SECTION 7- Storage, Handling and Use Procedures

- 7.1 Handling: Standard industrial practices apply
Protect diamond tools from damage, do not drop. Refer to ANSI B7.1 for proper use.
Consult ANSI Z43.1 and OSHA 1910.215 for conditions of proper use.
- 7.2 Storage: Store blades in a clean dry area. Protect from physical damage.

SECTION 8- Personal Protective Control Measures

8.1 Control Measures

Respiratory Protection:

Use NIOSH approved respirator if exposure limits are exceeded or where dust or fume exposures are excessive. Consider the potential for exposure to components of the coatings or base material being abraded or prepared in selecting proper respiratory protection. Refer to OSHA's specific standards for materials / compounds which may be found in coatings and material being cut or abraded. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and prudent industrial hygiene practice.

Ventilation:

Use local exhaust or general ventilation as required to minimize exposure to dust and maintain levels of contaminants lower than the established threshold limit values. Diamond products are often used with water for cooling and dust control.

Protective Gloves:

Fire resistant cloth, or leather gloves to protect from abrasion sparks and heat generated during grinding.

Eye Protection:

Safety glasses with side shields and impact resistant face shield. (Refer to OSHA 29 CFR1910.133)

Hearing Protection:

Recommended when power tools are in use. (Refer to OSHA 1910.95)

Body Protection:

Fireproof clothing with impact protection and shoe coverings is recommended when cutting and grinding.

Hygienic Practices:

Use soap and water to remove dusts from person prior to eating or drinking. Protect food, drink and other consumables from dust contamination.

8.2 Exposure:

<u>Chemical</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Cobalt	0.05 mg/ m3	0.05 mg/ m3
Copper	0.1 mg/m3	0.1 mg/m3
Industrial Diamond	N/A	N/A
Nickel	1 mg/m3	1 mg/m3
Silver	0.1 mg/m3	0.1 mg/m3
Tin	2 mg/m3	2 mg/m3
Tungsten	5 mg/m3	5 mg/m3
Tungsten Carbide	5 mg/m3 (as Tungsten)	5 mg/m3 (as Tungsten)

SECTION 9- Physical/Chemical Characteristics

Boiling Point	Not Applicable	Specific Gravity	Heavier than water
Vapor Pressure (mm Hg.)	Not Applicable	Melting Point	Not Applicable
Vapor Density (AIR=1)	Not Applicable	Evaporation Rate (Butyl Acetate=	Not Applicable
Solubility in Water	Insoluble	Appearance	Rigid metal based tools with diamond segments welded, fused or bonded to the substrate.
Lower And Upper Explosion Limits	Not Applicable	Odor	Not Applicable
Flammable Limits	Not Applicable	Degradation Temperature	Melting point greater than 800°F
Flash Point	Not Applicable		

SECTION 10 - Stability and Reactivity Data

Stability: Stable

Incompatibility: None known.

Hazardous Decomposition Products: Dust from cutting and grinding could contain ingredients listed in Section 2 and other, potentially more hazardous components of the base material being ground. Coatings applied to the base material being ground may be hazardous.

Hazardous Polymerization: Will not occur.

SECTION 11 - Toxicological Data

11.1 Component information

<u>Chemical</u>	<u>Short term effects</u>	<u>Carcinogen</u>
Cobalt	Respiratory irritaton	N
Copper	Nose, throat and skin irritation	N
Industrial Diamond	N/A	N

Nickel	Respiratory irritaton	Y
Silver	Respiratory irritaton	N
Tin	Respiratory irritaton	N
11.2 F Tungsten	Respiratory irritaton	N
Tungsten Carbide	Respiratory irritaton	N

Eye: Dust may cause eye irritation. Dust or abrasive particles may cause abrasive injury to the eyes.

Skin: None expected under normal use conditions. Contact with skin may cause removal of skin (abrasions).

Sensitization: Not expected under normal use conditions.

Chronic: Long term overexposure to dust may cause lung damage, decrease in lung function. Elevated noise levels from power equipment and other machinery may result in hearing loss. A significant toxicological hazard is presented by potentially hazardous materials being removed or abraded.

Symptoms of exposure

Dust inhalation	Coughing and shortness of breath, decreased lung capacity. Existing medical conditions such as asthma, or emphysema may be aggravated.
Ingestion	Can cause stomach pain, vomiting and diarrhea
Absorption	NA
Skin contact	May cause abrasion
Eye contact	May cause eye irritation
Carcinogenity	Unknown
Mutagenicity	Unknown
Reproductive effects	Unknown

Section 12-Ecological Information

This product is not expected to be hazardous for the environment. No specific ecotoxicity data is available for this product.

Section 13-Disposal Considerations

Dispose in accordance with all applicable local, state/provincial and federal regulations.

Section 14-Transport Information

DOT Hazardous Materials Description Not Applicable, not hazardous

Proper Shipping Name: Not Regulated

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

Section 15-Regulatory Information

SARA Section 311/312 Hazard Categories: Not Applicable

California Proposition 65: WARNING You create dust when you cut, sand, drill or grind materials such as wood, paint, cement masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

Section 16-Other Information

SDS Revision Date: 10/26/21

Reason for Update: SDS format, periodic review

Preparation By: Karl Stafflinger

COMPANY USE The information contained in this Safety Data Sheet are taken from sources and references believed to be correct and accurate at the date of origin. Virginia Abrasives assumes no liability to any user.