

# Virginia Abrasives Corporation

## SAFETY DATA SHEET

### SECTION 1 - Identification of the Product and Company

1.1 Product Name Bonded abrasive discs (including Type 1, 5,11, 12, and 27)  
1.2 Product Use Cutting and grinding of metal, stone, concrete and other 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 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.  
Determine the hazard potential of materials being abraded by referring to MSDS or SDS for associated materials.  
Store the product properly. Do not use if the product comes into contact with water or solvents. 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 8 hr PEL</u>              | <u>Cas #</u>   |
|------------------------------------|----------------|-----------------|-----------------------------------|----------------|
| Aluminum Oxide                     |                | 0-80%           | 15 mg/m <sup>3</sup>              | CAS 1344-28-1  |
| Silicon Carbide                    |                | 0-80%           | 15 mg/m <sup>3</sup>              | CAS 409-21-2   |
| Alumina Zirconia                   |                | 0-20%           | 5 mg/m <sup>3</sup> (as zirconia) | CAS 1314-23-4  |
| Cured Phenol<br>Formaldehyde Resin |                | 5-20%           | 15 mg/m <sup>3</sup>              | CAS 9003-35-4  |
| Calcium Hydroxide                  |                | 0-5%            | 15 mg/m <sup>3</sup>              | CAS 1305-62-0  |
| Cryolite                           |                | 0-10%           | 2.5 mg/m <sup>3</sup>             | CAS 15096-52-3 |
| Fiberglass reinforcement mat       |                | 0-5%            | 15 mg/m <sup>3</sup>              | CAS 65997-17-3 |

### 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: Will not burn
- 5.2 Unusual Fire or Explosion Hazards: None
- Flammable Properties: Does not support combustion
- 5.3 Special Fire Fighting Procedures: No special procedures required

## 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 wheel 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: Keep abrasive products dry. Avoid temperature and humidity extremes.
- Do not store in the presence of solvents.

## SECTION 8- Personal Protective Control Measures

### 8.1 Control Measures

#### Respiratory Protection:

Use NIOSH 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 abraded or prepared in selecting proper respiratory protection. Refer to OSHA's specific standards for Free silica, lead, cadmium, and other materials which may be found in coatings and substrate 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.

#### 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:

Chemical

OSHA PEL

ACGIH TLV

|                                    |                       |                               |
|------------------------------------|-----------------------|-------------------------------|
| Aluminum Oxide                     | 15 mg/m3              | 10 mg/m3                      |
| Silicon Carbide                    | 15 mg/m3              | 10 mg/m3 (inhalable fraction) |
| Alumina Zirconia                   | 5 mg/m3 (as zirconia) | 5 mg/m3 (as zirconia)         |
| Cured Phenol<br>Formaldehyde Resin | Not established       | Not established               |
| Calcium Hydroxide                  | NA                    | NA                            |
| Fiberglas reinforcement mat        | 5 mg/m3               | 10 mg/m3                      |
| Cryolite                           | 2.5 mg/m3             | 2.5 mg/m3                     |

### SECTION 9- Physical/Chemical Characteristics

|   |                |   |   |
|---|----------------|---|---|
| <b>Boiling Point</b>                    | Not Applicable | <b>Specific Gravity</b>                 | Heavier than water  |
| <b>Vapor Pressure</b> (mm Hg.)          | Not Applicable | <b>Melting Point</b>                    | Not Applicable  |
| <b>Vapor Density</b> (AIR=1)            | Not Applicable | <b>Evaporation Rate (Butyl Acetate=</b> | Not Applicable  |
| <b>Solubility in Water</b>              | Insoluble      | <b>Appearance</b>                       | Rigid discs constructed of bonded abrasive material.<br>Reinforcement grid is visible on sides. |
| <b>Lower And Upper Explosion Limits</b> | Not Applicable | <b>Odor</b>                             | Not Applicable  |
| <b>Flammable Limits</b>                 | Not Applicable | <b>Degradation Temperature</b>          | Greater than 800°F  |
| <b>Flash Point</b>                      | 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>Route of Exposure</u> | <u>Acute LD50</u>   |
|---------------------------------|--------------------------|---------------------|
| Aluminum Oxide                  | oral                     | >5000 mg/kg (rat)   |
| Silicon Carbide                 | oral                     | >5000 mg/kg (mouse) |
| Alumina Zirconia                | oral                     | >8800 mg/kg (rat)   |
| Cured Phenol Formaldehyde Resin | N/A                      | N/A                 |
| Calcium Hydroxide               |                          | 7300 mg/kg (rat)    |

|                             |      |                   |
|-----------------------------|------|-------------------|
| Fiberglas reinforcement mat | N/A  | N/A               |
| Cryolite                    | oral | >5000 mg/kg (rat) |

**11.2 Route(s) of Entry**

Ingestion: None expected under normal use conditions. Swallowing large pieces may cause obstruction.  
 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.  
 Carcinogenicity: None of the components are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

**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**

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**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.

|                                     |
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| <b>Section 16-Other Information</b> |
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**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.