

<b>SAFETY DATA SHEET</b>	Abrasive Flap Discs, Aug 31, 2018
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**Important Notice:** Coated abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific measures to protect the operators. During grinding operation, 90% or more of dust particulates come from the material being ground and, for wet grinding, from aerosols generated by the grinding fluid. Specific attention must therefore be given to the nature of the part and fluid, and the appropriate personal protection equipment must be used.

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## SECTION 1: Product Identification

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### 1.1 Product Identifier

Abrasive Flap Discs

### 1.2 Product Uses

Abrasive for industrial and professional application. Grinding and finishing on all materials.

### 1.3 Supplier Information

Company: Virtual Machines Inc. a/o Extreme Abrasives

Address: 1110 Kamato Rd. Unit 10-11

Mississauga, ON

L4W 2P3

Canada

Phone: 905 282 1313

Fax: 905 282 1315

### 1.4 Emergency Telephone Number

905 282 1313 (8.00 a.m. to 4.30 p.m. Eastern Time)

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## SECTION 2: Hazard Identification

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### 2.1 Classification

Coated abrasives are not hazardous products as defined in EC Directive N 88/379 and according OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### 2.2. Label elements California

 **WARNING:** Cancer- [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### 2.3. Other hazards

In its original form product does not represent hazard. However greater hazard would be exposure to the dust and fumes coming from material being worked on. Hazards from exposure to the dust and fumes has to be evaluated. Dust may cause respiratory and eye irritation and

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can be harmful if inhaled. This product may contain Cryolite that may cause harm to breast-fed children and may cause damage to lungs and skeleton system.

**SECTION 3: Composition/Information on Ingredients**

Ingredient	C.A.S. No	% by weight (optional)
BACKING - FIBREGLASS BOUND WITH RESIN	N/A	20-40
BACKING - REINFORCED NYLON (PLASTIC)	N/A	35-50
BACKING - ALUMINUM	N/A	35-50
CERAMIC ALUMINUM OXIDE	1344-28-1	15-40
ALUMINUM OXIDE Al <sub>2</sub> O <sub>3</sub>	1344-28-1	15-30
ZIRCONIA ALUMINA ZrO <sub>2</sub>	1314-23-4	15-30
CRYOLITE (Na <sub>3</sub> AlF <sub>6</sub> )	15096-52-3	0-15
POTASSIUM FLUOROBORATE	14075-53-7	0-5
CURED EPOXY ADHESIVE	N/A	15-20
COTTON OR POLY-COTON OR POLYESTER CLOTH	N/A	13-17

**SECTION 4: First Aid Measures****4.1 Description of First Aid Measures****4.1.1 General Information**

NOT APPLICABLE WHEN COATED ABRASIVES ARE STORED OR NOT USED.

The following recommendations are basic safety rules for grinding operations. They must be followed in conjunction with the information appearing in the safety data sheets of the material being ground and grinding fluid.

**4.1.2 Inhalation**

Remove from exposure and seek medical attention if symptoms persist.

**4.1.3 Skin Contact**

No hazardous effect known.

**4.1.4 Eye Contact**

Remove from exposure and flush with clean water. If symptoms persist, seek medical attention.

**4.1.5 Ingestion**

If exposed to sanding dust, remove victim to fresh air and get immediate medical attention.

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**SECTION 5: Fire-Fighting Measures**

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NONE SPECIFIC

Water, powder, foam, sand, CO<sub>2</sub>, etc. can all be used if compatible with operating conditions.

When there is thermal decomposition of the product wear protective clothing and breathing apparatus.

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**SECTION 6: Accidental Release Measures**

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NOT APPLICABLE

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**SECTION 7: Handling and Storage**

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**7.1 Precautions for Safe Handling**

**7.1.1 Protective Measures**

Follow recommendations for PPE. Damaged discs can break apart during use and cause serious. Inspect discs for concentricity and damage prior to use. Replace if damaged

**7.1.2 Advice on general occupation hygiene**

No specific requirements.

**7.2 Conditions for Safe Storage**

Store coated abrasives in constant moderate temperature and humidity conditions. For detailed recommendations refer to the FEPA Safety Leaflet for Coated Abrasives.

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**SECTION 8: Exposure Control and Personal Protection**

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NOT APPLICABLE WHEN COATED ABRASIVES ARE HANDLED OR STORED

**8.1 Control Parameters**

Before use it is recommended to perform exposure assessment and use PPE accordingly. During grinding operations with coated abrasives, particles of dust come from the material being ground. The general maximum exposure limit for dust is 6 mg/m<sup>3</sup>. Use general ventilation and/or local exhaust ventilation to control airborne exposures to below relevant limits. Ensure that ventilation/exhaust or dust handling systems are adequate to working environment.

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In the case where materials are exposed to overheating use appropriate ventilation to maintain air borne particles below exposure guidelines.

When using coated abrasives, refer to the grinding machine instructions, and national rules and regulations. Refer also to the FEPA Safety Leaflet for Coated Abrasives also to OSHA 29 CFR 1910.134 or European Standard EN 149.

Keep exposure to the following components under surveillance. Also observe also the regional official regulations.

Substance	CAS-N°	Agency	Threshold limits
Cryolite	15096-52-3	OSHA	TWA (as dust): 2.5 mg/m <sup>3</sup>
Potassium Fluoroborate	14075-53-7	OSHA	TWA (as dust): 2.5 mg/m <sup>3</sup>
Ceramic Aluminum Oxide	1344-28-1	OSHA	TWA (as dust): 15 mg/m <sup>3</sup>
Aluminum Oxide	1344-28-1	OSHA	TWA (as dust): 15 mg/m <sup>3</sup>
Zirconia Alumina	1314-23-4	OSHA	TWA (as dust): 15 mg/m <sup>3</sup>
Fiberglass Mesh	N/A	OSHA	TWA (as dust): 15 mg/m <sup>3</sup>
Cotton, Poly-Cotton and Polyester Cloth	N/A	N/A	N/A
Cured Epoxy Resin	N/A	N/A	N/A

OSHA: United States Department of Labor – Occupational Safety and Health Administration  
TWA: Time-Weighted-Average

### 8.2 Personal Protective Equipment

The following personal protective equipment should be used dependent on the operation and the material being ground.

#### 8.2.1 Eye/Face Protection

Eye protection: Machine guarding and safety goggles or face shield. Refer to OSHA 29 CFR 1910.133.

Ear protection: Use of ear defenders or equivalent. Refer to OSHA 29 CFR 1910.95.

#### 8.2.2 Skin Protection

Skin protection: Use of suitable protective clothing.

Hand protection: Use of protective gloves.

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### 8.2.3 Respiratory Protection

Dust protection: Use of dust mask or OSHA approved respirator. Refer to the FEPA Safety Leaflet for Coated Abrasives and also to OSHA 29 CFR 1910.134 or European Standard EN 149.

### 8.2.3 Ventilation

Use exhaust equipment or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the occupational exposure limits.

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## SECTION 9: Physical and Chemical Properties

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### 9.1 Information on Basic Physical and Chemical Properties

Physical State: Solid

Colour: Variable

Odour: May give off non-specific odour during use

pH: N/A

Change of physical state: N/A

Density: N/A

Bulk Density: N/A

Vapour Pressure: N/A

Flash Point: N/A

Viscosity: N/A

Solubility in H<sub>2</sub>O: Not defined

### 9.2 Other Information

#### Physical Hazards:

#### Explosives

NOT APPLICABLE

#### Flammable Gases

NOT APPLICABLE

#### Flammable Aerosols

NOT APPLICABLE

#### Oxidizing Gases

NOT APPLICABLE

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**Pressurized Gases**

NOT APPLICABLE

**Flammable Liquids**

NOT APPLICABLE

**Flammable Solids**

NOT APPLICABLE

**Self-Reactive Substances and Mixtures**

NOT APPLICABLE

**Pyrophoric Liquids**

NOT APPLICABLE

**Self-Heating Substances**

NOT APPLICABLE

**Substances or Mixtures Which, in Contact with Water Emit Flammable Gases**

NOT APPLICABLE

**Oxidizing Liquids**

NOT APPLICABLE

**Oxides Peroxides**

NOT APPLICABLE

**Metal Corrosion**

NOT APPLICABLE

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**SECTION 10: Stability and Reactivity**

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**10.1 Reactivity and Chemical Stability**

Coated abrasives are stable and non-reactive when handled or stored.

**10.2 Possibility of Hazardous Reactions**

If coated abrasives are used in accordance with instructions, no hazardous decomposition products are created.

**10.3 Conditions to Avoid**

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Strong acids, bases, and oxidizing agents may modify the mechanical characteristics of the products and create safety hazards.

#### **10.4 Hazardous decomposition products**

At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated.

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### **SECTION 11: Toxicological Information**

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NOT APPLICABLE WHEN HANDLED OR STORED

Based on experience gathered over many years, when properly used, coated abrasives have no adverse effects on health. Refer to the preliminary note about dust and airborne particles during use.

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### **SECTION 12: Ecological information**

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Mobility: N/A

Persistence and Degradability: Not defined.

Bioaccumulative Potential: N/A

Ecotoxicity: N/A

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### **SECTION 13: Disposal Considerations**

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After use, coated abrasives may be contaminated with hazardous materials (particles or cooling agents) and should be disposed of in accordance with local, regional and national regulations.

The material that was worked on could contaminate product and must be considered as a factor in the disposal method. Dispose product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA): Not regulated

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### **SECTION 14: Transport**

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Coated abrasives are not dangerous products and have no specific rules for transportation and are not regulated per U.S. DOT, IATA or IMO.

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**SECTION 15: Regulatory information**

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**15.1 EC and OSHA Regulations**

NONE, no specific marking required under the EC-Directive N 88/379 or OSHA.

**15.2 National and Local Regulations**

Refer to relevant texts.

**15.3 California Proposition 65**

 **WARNING:** Cancer- [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) During use abrasive product create dust when cutting, sanding, or grinding materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals not known to us but known to cause cancer, birth defects or other reproductive harm.

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**SECTION 16: Other Information**

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NONE

**Warning:** The above indications are based on existing practice and do not constitute a guarantee. The laws and regulations must be strictly followed by the users and operators who remain responsible for the use of coated abrasives.

**Issued by:** Jovan Pajovic

**Date:** 01/01/2015