

**safety data sheet for coated abrasives**

**1. Identification of the product and of the company/undertaking**

**1.1 Product identifier**

**Coated Abrasives (Cat. #7)**

**1.2 Use of the product**

Abrasives for industrial and professional application

**1.3 Details of the supplier of the voluntary product information:**

**Company:** VSM Abrasives Corporation

**Address:** 1012 E. Wabash O'Fallon,  
MO 63366

**Telefon:** 800-737-0176 Fax: 636-272-7434

**E-mail:** msds@vsmabrasives.com

**1.4 Emergency telephone number:**

**Tel.:** 1-800-262-8200

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**2. Hazards identification**

**2.1. Classification**

STOT RE. 1, H372

The hazard identification is based on a formalistic procedure as the hazard statements of the ingredients are summarized under section 3. This does not correspond to the hazardousness of the product itself.

**2.2. Label elements**



Signal word: Danger

Hazards statement:

H372: Causes damage to organs through prolonged or repeated exposure

Precautionary statements:

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P260: Do not breathe dust.  
P264: Wash thoroughly after handling.  
P410: Protect from sunlight.  
P501: Dispose of contents and container in accordance with local and national regulations.

### 2.3. Other hazards

A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

### 3. Composition/information on ingredients

Substance	CAS-N°	Conc. (%)	Classification acc. OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
			Hazard classes/ hazard categories	Hazard statements
Cryolite	13775-53-6	1-30%	Acute Tox. 4 STOT wdh. 1	H332 H372
Resin	9003-35-4	0-30%		
Resin	9003-08-1	0-20%		
Zircon Oxide Mineral	1314-23-4	0-40%		
Aluminium Oxide Mineral	1344-28-1	0-40%		
Titanium Dioxide	13463-67-7	0-5%		
and/or Potassium fluoroborate	14075-53-7	0-30%		

(For full text of H- phrases see section 16)

### 4. First aid measures

See also section 8 and 16

#### 4.1. Description of first aid measures

Inhalation: Not possible, due to the form of the product  
 Eye contact: Not possible, due to the form of the product  
 Skin contact: No harmful effects known  
 Ingestion: Not likely, due to the form of the product; if necessary contact physician

Note to physician: Not available.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Not known.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Not relevant. Treat symptomatically.

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### **5. Fire fighting measures**

#### **5.1. Extinguishing media**

Extinguishing media: water, foam, sand, powder or CO<sub>2</sub> as appropriate for surrounding materials

#### **5.2. Special hazards arising from the product**

Toxic fumes may occur. Use respiratory protective equipment.

#### **5.3. Advice for fire fighters**

Extinguishing materials should be selected according to the surrounding area.

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### **6. Accidental release measures**

Not applicable.

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### **7. Handling and storage**

Follow instructions of grinding machine manufacturers and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

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### **8. Exposure controls/personal protection**

#### **8.1. Control parameters**

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

Note: Hazardous dust of the workpiece material may be generated during and/or sanding operations. National regulations for dust exposures limit values have to be taken into consideration.

*Occupational exposure limit values and/or biological limit values*

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Keep exposure to the following components under surveillance.  
(Observe also the regional official regulations)

Substance	CAS-N°	Agency	Threshold limits
Zirconium Compounds	1314-23-4	ACGIH	TWA (as Zr): 5 mg/m <sup>3</sup>
		OSHA	STEL (as Zr): 10 mg/m <sup>3</sup> , TWA (as Zr): 5 mg/m <sup>3</sup>
alpha-Alumina	1344-28-4	OSHA	TWA: 15 mg/m <sup>3</sup> (total dust) TWA: 5 mg/m <sup>3</sup> (respirable fraction)
		CMRG	TWA: 1 fiber /cm <sup>3</sup>
Cryolite	15096-52-3	ACGIH	TWA (as F): 2.5 mg/m <sup>3</sup>
		OSHA	TWA: 2.5 mg/m <sup>3</sup> (total dust) TWA (as F): 2.5 mg/m <sup>3</sup>
Formaldehyde	50-00-0	ACGIH	TWA: 0.1 mg/m <sup>3</sup>
		OSHA	STEL: 0.3 mg/m <sup>3</sup> TWA: 0.75 mg/m <sup>3</sup>
		NIOSH	STEL: 2 mg/m <sup>3</sup> TWA: 0.016 mg/m <sup>3</sup>
Potassium Fluoroborates	14075-53-7	ACGIH	TWA (as F): 2.5 mg/m <sup>3</sup>
		OSHA	TWA: 2.5 mg/m <sup>3</sup> (total dust) TWA (as F): 2.5 mg/m <sup>3</sup>
Titanium Dioxide	13463-67-6	ACGIH	TWA: 2.5 mg/m <sup>3</sup> (fine scale particles)
		CMRG	TWA: 5 mg/m <sup>3</sup> (respirable dust)
		OSHA	TWA: 5 mg/m <sup>3</sup> (total dust)

ACGIH: American Conference of governmental Industrial Hygienists

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor – Occupational Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

## 8.2. Exposure controls

### 8.2.1. Individual protection measures

#### 8.2.1.1. Respiratory protection: Use respiratory protective equipment

(type depends on specific application and material being ground)

#### 8.2.1.2. Hand protection: Wear protective gloves

(type depends on specific application and material being ground)

- 8.2.1.3. Eye protection: Wear protective goggles or face shield  
(type depends on specific application and material being ground)
- 8.2.1.4. Hearing protection: Use hearing protection  
(type depends on specific application and material being ground)
- 8.2.1.5. Body protection: Use protective clothing  
(type depends on specific application and material being ground)

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## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	not applicable/different colors
pH:	not applicable
Melting point:	not applicable
Boiling point:	not applicable
Density:	not applicable
Viscosity:	not applicable
Solubility in water:	not relevant (article)

### 9.2. Other information

None.

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## 10. Stability and reactivity

### 10.1. Reactivity

Coated Abrasives are stable when handled or stored correctly.

### 10.2. Chemical stability

No decomposition in normal use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

Coated Abrasives are stable when handled or stored correctly.

### 10.5. Incompatible materials

No dangerous reactions known.

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## 10.6. Hazardous decomposition products

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

## 11. Toxicological information

### 11.1. Information on toxicological effects

**Inhalation:** Dust may cause respiratory irritation.

**Ingestion:** None expect under normal use conditions.

**Skin Contact:** None expect under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

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

#### Carcinogenicity:

#### Acute Toxicity:

Zirconium Oxide	oral	>5000 mg/kg (LD50, rat)
	inhalation	>4.3 mg/L/h (LC50, rat)
Aluminium Oxide	Oral	>5000 mg/kg (LD50, rat)
	Inhalation	>7.6 mg/L/h (LC50, rat)
Cryolite	oral	>10000 mg/kg (LD50, rat)
	inhalation	>200 mg/L (LC50, rat)
	dermal	>2000 mg/kg (LD50, rabbit)
Formaldehyde	Oral	500mg/kg (LD50, rat)
	Dermal	270 mg/kg (LD50, rabbit)
	Inhalation	0.578 mg/l/4h (LC50, rat)
Potassium Fluoroborate	Oral	>2000 mg/kg (LD50, rat)
Titanium Dioxide	dermal	>10000 mg/kg (LD50, rabbit)
	inhalation	>6.82 mg/L/4h (LC50, rat)
	ingestion	>10000 mg/kg (LD50, rat)

## 12. Ecological information

### 12.1. Toxicity

No effects known.

### 12.2. Persistence and degradability

No biodegradable potentials known.



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### 12.3. Bioaccumulative potential

No potentials known.

### 12.4. Mobility in soil

No potentials known.

### 12.5. Results of PBT and vPvB assessment

Not relevant.

### 12.6. Other adverse effects

No effects known.

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## 13. Disposal considerations

### 13.1. Disposal methods

13.1. Product  
Follow local/ regional/ national/ international regulations.

13.2. Packing  
Follow local/ regional/ national/ international regulations.

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## 14. Transport information

The product is not regulated per U.S. DOT, IATA or IMO.

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## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the product

#### California Proposition 65:

**⚠️WARNING:** This product can expose you to Formaldehyde and Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 15.2. Chemical safety assessment

Not relevant.

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## 16. Other information

### Changes to the previous versions

See section 8

### Hazard statements referred to in section 2 and 3

H332 Harmful if inhaled.

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H372 Causes damage to organs through prolonged or repeated exposure. Target organs: lungs, skeleton

The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.

Revision Date: 6/16/2022

Issued by: R & D

Contact: Dr. Jessica Tschirch





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**Danger**

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