

safety data sheet for coated abrasives

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

1.1 Product identifier

Coated Abrasives (Cat. #4)

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

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:

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%		
and/or Kaolin	1332-58-7	0-5%		
and/or potassium fluoroborate	14075-53-7	0-30%		
Silicon carbide	409-21-2	0-40%		

(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.

5. Fire fighting measures

5.1. Extinguishing media

Extinguishing media: water, foam, sand, powder or CO₂ 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.

6. Accidental release measures

Not applicable.

7. Handling and storage

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

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

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

Substance	CAS-N°	Agency	Threshold limits
Silicon carbide	409-21-2	ACGIH	TWA: 10 mg/m ³
		OSHA	TWA: 15 mg/m ³
		NIOSH	TWA: 10 mg/m ³
Cryolite	15096-52-3	ACGIH	TWA (as F): 2.5 mg/m ³
		OSHA	TWA: 2.5 mg/m ³ (total dust)
			TWA (as F): 2.5 mg/m ³
Formaldehyde	50-00-0	ACGIH	TWA: 0.1 mg/m ³
			STEL: 0.3 mg/m ³
		OSHA	TWA: 0.75 mg/m ³
		NIOSH	STEL: 2 mg/m ³
			TWA: 0.016 mg/m ³
Kaolin	1332-58-7	ACGIH	TWA: 2 mg/m ³
		OSHA	TWA: 15 mg/m ³ (total dust)
		NIOSH	TWA: 10 mg/m ³ (total dust)
Potassium Fluoroborates	14075-53-7	ACGIH	TWA (as F): 2.5 mg/m ³
		OSHA	TWA: 2.5 mg/m ³ (total dust)
			TWA (as F): 2.5 mg/m ³

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)

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.

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.

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:

Silicon carbide	Oral	>2000 mg/kg (LD50, rat)
	Dermal	>2000 mg/kg (LD50, 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)

12. Ecological information

12.1. Toxicity

No effects known.

12.2. Persistence and degradability

No biodegradable potentials known.

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.

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.

14. Transport information

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

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, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

15.2. Chemical safety assessment

Not relevant.

16. Other information

Changes to the previous versions

See section 15

Hazard statements referred to in section 2 and 3

H332 Harmful if inhaled.

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



Danger

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