

Updated on 04-12-19

Voluntary product information based on the format of safety data sheet for unitized abrasives.

Product code:

Unitized Products

CHAPTER 1: Identification of the substance/mixture and of the company/undertaking

Company

Company name: VSM Abrasives Corp.
Street: 1012 E. Wabash Street
Town: O'Fallon, MO 63366, USA
Telephone: 800-737-0176 Fax: 636-272-7434
E-mail: us.info@vsmabrasives.com
Website: www.us.vsmabrasives.com
Responsible/issuing person: Steve Pickardt

Product

Identification: Unitized product
Application: Industrial abrasive used for sanding and finishing operations of various materials, including metals.

CHAPTER 2: Hazards identification

2.1. Classification

Does not contain any substances classified as dangerous according to directive 1999/45/EC, 67/548/EEC or Regulation (EC) N° 1272/2008.

2.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) N° 1272/2008.

2.3. Other hazards

During use, dust may form, which may form ignitable mixtures with air - risk of dust explosion. Health injuries are not known or expected under normal use.

Always check product for damage before use. Using a damaged product might result in catastrophic failure, which might result in physical injury to hands, body and eyes. Observe the advised RPM. Never exceed the maximum RPM. Exceeding the maximum RPM might result in catastrophic failure, which might result in physical injury to hands, body and eyes.

CHAPTER 3: Composition/information on ingredients

3.1 Substances

Chemical nature The product contains following components:

Component	CAS No.	% By Weight
Silicon Carbide mineral	409-21-2	0-55
Aluminium oxide mineral	1344-28-1	0-60
Filler	14807-96-6	3-12
Cured Resin	Mixture	10-30
Nylon Fiber	Mixture	10-30

CHAPTER 4: First aid measures

4.1. Description of first aid measures

If inhaled: During use, dust may be formed. If dust is inhaled, move to fresh air.

Skin contact: During use, dust may be formed. Wash off with water and soap.

Eye contact: During use, dust may be formed which may irritate the eyes, rinse with plenty water.

Ingestion: During use, dust may be formed. If ingested, clean mouth with water and drink plenty of Water afterwards.

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

See section 11 on toxicological effects

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

Treat symptomatically.

CHAPTER 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media: water, foam, sand, carbon dioxide (CO₂) and dry chemical as appropriate for surrounding materials

5.2. Special hazards arising from the product

Use respiratory protective equipment.

5.3. Advice for fire fighters

Extinguishing materials should be selected according to the surrounding area. Wear self-contained breathing apparatus.

CHAPTER 6: Accidental release measures

Not applicable.

CHAPTER 7: Handling and storage

7.1 Precautions for safe handling

For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. Damaged product may break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

7.2 Conditions for safe storage, including any incompatibilities

Store at a room temperature in the original packaging. Keep in a dry place.

7.3 Specific end uses

The product is used as an abrasive.

CHAPTER 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Component	CAS-No.	Value	Control parameters	Basis
General dust limit (alveolar fraction)		Air 8h	1,5mg/m ³	MAK, TRGS 900
		Air 8h	3mg/m ³	Belgium
		Air 8h	5mg/m ³	France
		Air 8h	3mg/m ³	Italy
		Air 8h	5mg/m ³	Norway
		Air 8h	3mg/m ³	Portugal
		Air 8h	3mg/m ³	Spain
		Air 8h	5mg/m ³	Sweden
		Air 8h	3mg/m ³	Switzerland
		Air 8h	5mg/m ³	Sweden
		Air 8h	4mg/m ³	United Kingdom
Silicon carbide Mineral	409-21-2	Air 8h	5mg/m ³	OSHA

8.2. Exposure controls

8.2.1 Engineering measures

Use local exhaust to keep the dust below the exposure limit. Dust formation can vary substantially depending on the abrasives that is used and the type of material it is used on. Use appropriate measuring equipment to establish the exposure over an 8-hour limit.

8.3 Personal protection equipment

When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.



8.3.1 Respiratory protection: Half mask with a particle filter P2 (EN 143). Necessary, in case of dust formation and inadequate ventilation.

8.3.1.1 Hand protection: Protective gloves with good abrasion resistance. (EN 13743)

8.3.1.2 Eye protection: Impact resistance safety glasses. (EN 13743)

8.3.1.3 Hearing protection: Sanding and grinding produces high levels of noise, use ear protection during use

8.3.1.4 Body protection: Store and wash working clothes separately.

CHAPTER 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Product specific
Odour	Not applicable
pH	Not applicable
Melting point/range	Not applicable
Flash point	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	Not applicable
Density	Product specific
Water solubility	Not applicable
Partition coefficient: octanol/water	Not applicable
Auto-ignition temperature	Not applicable



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Ignition temperature

Thermal decomposition

Safety Data Sheet

According to directive 1272/2008/EC and Regulation (EC) N° 1907/2006

Not applicable

Stable under normal storage and handling temperatures.

May start to decompose at temperatures higher than 250°C

CHAPTER 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and pressure.

10.2. Chemical stability

No decomposition if stored normally.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Avoid dust formation in combination with sources of ignition.

10.5. Incompatible materials

Storage oxidizing agents.

10.6. Hazardous decomposition products

None known

CHAPTER 11: Toxicological information

The toxicological data on ingredients may not be reflected in the material classification and/or signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure or the data may not be relevant for the material as a whole. To fully understand the potential toxicological effects during use, the material that is being abraded must also be included in the risk assessment. The assessment below considers only the Cibo product.

11.1. Information on toxicological effects

Signs and symptoms of exposure:

Based on test data during use of the material as an abrasive and/or information on the components, this material may produce the following health effects:

Inhalation:

Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness and nose or throat pain.

Skin contact:

Mechanical skin irritation: signs/symptoms may include abrasion, redness, pain and itching.

Eye contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Dust created by grinding, sanding or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing and blurred or hazy vision.

Ingestion:

No health effects are expected

Acute toxicity:

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5000 mg/kg
Silicon carbide mineral	Dermal	Rat	LD50 > 2000 mg/kg
Silicon carbide mineral	Ingestion	Rat	LD50 > 2000 mg/kg

Skin corrosion/irritation:

No effects expected based on the ingredients.

Serious eye damage/irritation:

No effects expected based on the ingredients.

Respiratory or Skin sensitization:

No effects expected based on the ingredients.

Reproductive toxicity:

Name	Route	Target organ	Value	Species	Test Result	Exposure Duration
Silicon carbide mineral	Ingestion	Pneumoconiosis	Some positive data exist, but the data are not sufficient for classification		HHA	

CHAPTER 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity

Not applicable

Chronic aquatic toxicity

Not applicable

12.2. Persistence and degradability

Product:

Biodegradability

Not biodegradable

12.3. Bioaccumulative potential

Product:

Bioaccumulation

No bioaccumulation expected

12.4. Mobility in soil

Product:

Distribution among environmental compartments

Not applicable

12.5. Results of PBT and vPvB assessment

Product:

Assessment

Based on available data, the classification criteria are not met.

12.6. Other adverse effects

Product:

Further information

No known other adverse effects

CHAPTER 13: Disposal considerations

13.1. Waste treatment methods

Product

Take to an established disposal company according to the waste regulations.

CHAPTER 14: Transport information

14.1 UN number ADR

Not dangerous goods

IMDG

Not dangerous goods

Unitized Product

IAT A

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IAT A

Not dangerous goods

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IAT A

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IAT A

Not dangerous goods

14.5 Environment hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

Unitized Product

IAT A

Not dangerous goods

14.6 Special precautions for user

See this safety data sheet chapter 6-8.

DEEL 15: Regulatory information

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

Major Accident hazard legislation

Directive 96/82/EC does not apply.

15.2. Chemical safety assessment

Not relevant.

DEEL 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.