



Organic Bonded Type 27 Grinding Wheels

Safety Data Sheet

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

1.1. Product identifier

Product name : Organic Bonded Type 27 Grinding Wheels

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Manufacturing

1.3. Details of the supplier of the safety data sheet

Weiler Corporation
1 Weiler Drive
Cresco, PA 18326

1.4. Emergency telephone number

Emergency number : 570-595-7495

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product as manufactured is defined as an article per 29 CFR 1910.1200. No exposure hazards are anticipated during normal product handling conditions. In most cases, the material(s) removed from the workpiece may present a greater hazard than material released by the product. Based upon the materials that are contained within the working portion of this product it is possible that some dust particles from this product may be generated. The following safety data is presented for potential exposure hazards as associated with the dust particles that are related to this product.

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

This product as manufactured is defined as an article, therefore no labeling is required for the product as manufactured.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Aluminum oxide	(CAS No) 1344-28-1	0 - 90	Not classified
Zirconium oxide	(CAS No) 1314-23-4	0 - 90	Not classified
Silicon carbide	(CAS No) 409-21-2	0 - 90	Not classified
Fiberglass	None	<= 10	Not classified
Pyrite (FeS ₂)	(CAS No) 1309-36-0	<= 2	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.

First-aid measures after skin contact : Wash with soap and water. Seek medical advice if skin irritation develops or persists.

First-aid measures after eye contact : Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.

First-aid measures after ingestion : Seek medical attention.

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

Symptoms/injuries after inhalation	: Dusts may cause coughing, shortness of breath. Prolonged breathing of dusts may affect breathing capacity.
Symptoms/injuries after skin contact	: Dusts may cause irritation. May cause abrasions.
Symptoms/injuries after eye contact	: Dust may irritate or damage the eyes without protection.
Symptoms/injuries after ingestion	: None under normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use water, carbon dioxide, foam or dry chemical.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: None known.
Explosion hazard	: None known.

5.3. Advice for firefighters

Protection during firefighting	: Firefighters should wear full protective gear.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

None.

6.3. Methods and material for containment and cleaning up

For containment	: No special measures required.
Methods for cleaning up	: No special measures required.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Handle with care, avoid impact.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store dry at 20° C +/- 20 °C; 55-60% air humidity
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aluminum oxide (1344-28-1)		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Zirconium oxide (1314-23-4)		
ACGIH	Not applicable	
OSHA	Not applicable	

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Silicon carbide (409-21-2)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (nonfibrous, inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica) 3 mg/m ³ (nonfibrous, respirable fraction, particulate matter containing no asbestos and <1% crystalline silica) 0.1 fibers/cm ³ (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1)
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)

Pyrite (FeS ₂) (1309-36-0)	
ACGIH	Not applicable
OSHA	Not applicable

Note: Consideration should be given to the base material and coating that are being worked upon.

8.2. Exposure controls

Appropriate engineering controls:

Utilize adequate ventilation to minimize the exposure to airborne particulates and maintain the concentration of contaminants below the occupational exposure limits.

Respiratory Protection:

When exposure limits are exceeded or when the dust concentrations are excessive, approved respirators for those conditions should be used. When selecting the respiratory protection equipment, consideration of the exposure to the coating or the base materials being worked on should be included. Local regulations and standards should be followed where appropriate. The type of respiratory equipment used should be selected according to the contaminate type, form and concentration being produced. Select and use respirators in accordance with applicable regulations and good industrial hygiene practice.

Hand protection:

The use of cloth or leather gloves is recommended.

Eye Protection:

Safety goggles or face shield over safety glasses with side shields.

Hearing Protection:

Hearing protection may be required.

Skin and body protection:

The use of protective clothing should be used as needed to prevent the contamination of personal clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Specific gravity	: 2-4
Relative vapor density at 20 °C	: No data available

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Solubility	: Slight
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

During use, grinding dust is generated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Aluminum oxide (1344-28-1)	
LD50 oral rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Silicon carbide (409-21-2)	
IARC group	2A - Probably carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

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SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Zirconium oxide (1314-23-4)

BCF fish 1	(no bioaccumulation)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not a dangerous good as defined in transport regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

Aluminum oxide (1344-28-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 % (fibrous forms)
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Zirconium oxide (1314-23-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silicon carbide (409-21-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Pyrite (FeS₂) (1309-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Aluminum oxide (1344-28-1)

U.S. - Massachusetts - Right To Know List

U.S. - Minnesota - Hazardous Substance List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

Zirconium oxide (1314-23-4)

U.S. - Massachusetts - Right To Know List

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Silicon carbide (409-21-2)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product