

Chemical Name	CAS#	Percent	
Silicon Carbide	409-21-2	MAX: 90%	

OSHA PEL TWA: 10 mg/m3 (Total Dust)

ACGIH TLV TWA: 10 mg/m3 (Total Dust)

# Carcinogen: No

COMMON NAME: Silicon Carbide

REG\*: Yes

Chemical Name	CAS#	Percent	
Zirconia Alumina	70692-95-4	MAX: 90%	

# OSHA PEL TWA: 5 mg/m3 (as Zirconium) ACGIH TLV TWA: 5 mg/m3 (as Zirconium) Carcinogen: No

COMMON NAME: Zirconia Alumina

REG\*: Yes

Chemical Name	CAS#	Percent	
Fluorides (as F)	15096-52-3	MAX: 3%	

OSHA PEL TWA: 2.5 mg/m3

ACGIH TLV TWA: 2.5 mg/m3

Carcinogen: No

COMMON NAME: Cryolite

REG\*: Yes

Chemical Name		Percent	
Pyrite FeS2	1309-36-0	MAX: 2%	

OSHA PEL TWA: No Applicable Information Found

ACGIH TLV TWA: 2.0 mg/m3

#### Carcinogen: No

COMMON NAME: Pyrite

REG\*: Yes

Chemical Name	CAS#	Percent	
Glass, Fibrous or Dust	65997-17-3	MAX: 10%	

OSHA PEL TWA: 15 mg/m3-Total Dust

ACGIH TLV TWA: 10 mg/m3-Total Dust

### Carcinogen: No

COMMON NAME: Fiberglass

REG\*: Yes

#### Comments:

COMPOSITION PER 29CFR 1910.1200 (G) (4).

The grinding wheel may be comprised of 1 or more of the following abrasives: Chemical Name: Alpha-Alumina Chemical Name: Silicon Carbide Chemical Name: Zirconia Alumina

The chemicals listed below may be a part of the bond system: Chemical Name: Fluorides (as F) Chemical Name: Pyrite FeS2 Chemical Name: Glass, Fibrous or Dust

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## **SECTION 3 : Physical And Chemical Characteristics**

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Physical State/Appearance: Solid Product

# Odor:

May give off odor in use.

### Vapor Pressure:

No Applicable Information Found

### Vapor Density:

No Applicable Information Found

## Boiling Point:

No Applicable Information Found

#### Melting Point:

No Applicable Information Found

#### Solubility:

IN WATER: Slight

IN ALCOHOL: No Applicable Information Found IN OTHER SOLVENT: No Applicable Information Found Specific Gravity: 2-4 **Evaporation Point:** No Applicable Information Found Percent Volatile: BY VOL: No Applicable Information Found FlashPoint: No Applicable Information Found Upper Flammable Explosive Limit: Not Applicable Lower Flammable Explosive Limit: Not Applicable 0 TOP **SECTION 4 : Fire And Explosion Hazards** Explosion: EXPLOSION POTENTIAL: No Applicable Information Found Flash Point: No Applicable Information Found Flash Point Method: Not Applicable Upper Flammable or Explosive Limit: Not Applicable Lower Flammable or Explosive Limit: Not Applicable Extinguishing Media: Use Water Fire Fighting Instructions: None TOP **SECTION 5 : Health Hazards Applies to All Ingredients:** Route of Exposure: INHALATION (During Grinding) INGESTION (During Grinding) SKIN (During Grinding) EYE (During Grinding) Potential Health Effects: Eye Contact: (During Grinding): Acute: Dust may irritate eyes. Skin Contact: (During Grinding): Acute: Some may experience skin irritation from dust. Inhalation: (During Grinding): Acute: Possible cough Ingestion: (During Grinding): Acute: No known adverse effects, but ingestion not recommended. Chronic Eye Contact:a (During Grinding): Dust may irritate eyes. Chronic Skin Contact: (During Grinding): Some may experience skin irritation from dust. Chronic Inhalation: (During Grinding): May affect breathing capacity.

### Chronic Ingestion:

(During Grinding): No known adverse effects, but ingestion not recommended.

### Other Potential Health Effects:

Risks (During Grinding): Grinding may create elevated sound levels which may affect hearing and dust which may aggravate preexisting respiratory conditions.

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SECTION 6 : Emergency And First Aid Procedures
Eye Contact: (During Grinding): Wash with large amounts of water. Obtain first aid and medical assistance, If needed.
Skin Contact: (During Grinding): Wash affected areas with soap and water. Obtain medical assistance, if needed.
Inhalation: (During Grinding): Remove to fresh air. Artificial respiration as needed. Obtain medical assistance, if needed.
Ingestion: (During Grinding): Obtain medical assistance, if needed.
Other First Aid: (During Grinding): Obtain medical assistance, if needed. Remove to fresh air.
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SECTION 7 : Reactivity Data
Chemical Stability: Stable
Conditions to Avoid: No Applicable Information Found
Incompatibilities with Other Materials: (Materials to Avoid): No Applicable Information Found
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition Products: In use, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.
SECTION 8 : Precautions For Safe Handling
Spill Cleanup Measures: Normal cleanup procedures. Evaluate all product in accordance with ANSI B7.1.
Other Precautions: No Applicable Information Found
Handling: None
Normal Use: Handling with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000 (air contaminants)
Storage: None
Normal Storage and Handling: See ANSI Standard B7.1.

## Waste Disposal:

Standard landfill methods consistent with applicable federal, state, and local laws. Products containing flourides may leach a very slight amount in landfills.

### Engineering Controls:

Measures to be taken during repair and maintenance of contaminated equipment that has been in contact with this material.

### Ventilation System:

Mechanical (General): Recommended

Local Exhaust:

Recommended

Other Exhaust Information: No Applicable Information Found

### Hand Protection Description:

PROTECTIVE GLOVES: Recommended

Eye/Face Protection:

Recommended

## Respiratory Protection:

(Specify Type): As needed. For approved dust respirators see OSHA 29CFR 1910.134

## Other Protective:

As needed hearing protection see OSHA 29CFR 1910.95 (Hearing Protection)

#### Comments:

See Section 8 & 9

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**SECTION 10 : Other Information** 

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# Applies to all ingredients:

### OSHA 29 CFR 1200:

 $\ast$  Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard

### NFPA:

Fire Hazard: 0 Health: 1 Reactivity: 0 MSDS Revision Date: 11/11/03

#### MSDS Author:

Contact: Richard E. Lawson

#### Disclaimer:

FOR COMPANY USE: The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Metabo Corporation makes no warranty with respect to the information or the suitability of the recommendations, and assumes no liability to any user thereof.

HAZARD RATING: Please rate consistent with NFPA Code

Abbreviations: NAIF - No Applicable Information Found N/A - Not Applicable

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