Hazard Communication May, 2015

# SAFETY DATA SHEET

## **SECTION 1 – IDENTIFICATION**

Product Identifier: Reinforced Resin Bonded Abrasive Products

Manufacturer Name: Metabo Corporation
Address 1231 Wilson Drive

West Chester, PA 19380

Phone: 800-638-2264 Fax: 800-638-2261

Recommended Use: Cutting and/or Grinding

Restrictions On Use: Dangerous, improper use may cause wheel breakage and serious injury. Do not abuse, over speed or

drop wheel. Safe to use only if mounted, guarded and operated according to ANSI B7.1 and OSHA

Regulations. Read safety tips in package. Always use a guard!

## **SECTION 2 - HAZARD(S) IDENTIFICATION**

Hazard Status This product is classified as non-hazardous under OSHA Hazard Communication Standard, 29

CFR 1910.1200

Label elements Not applicable
Pictograms Not applicable

Description of Hazard(s): Respiratory: Wheel dust is a respiratory irritant

Skin: Wheel dust and fiberglass reinforcement is a skin irritant

Ingestion: Acute product toxicity unknown

Eyes: Wheel dust is an eye irritant

Chronic: Potential chronic effects include skin sensitization and restricted breathing

Wear respirator, eye protection and protective clothing when using product.

Product will produce sparks and debris when in use; Never use this product near reactive or flammable

substances

Never use product if it comes in contact with water

Supplemental Labeling: Prolonged exposure to elevated noise levels during operations may affect hearing. 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.



#### **SECTION 3 - COMPOSITION**

Chemical Name	Formula	CAS#	MAX % WT. **
Aluminum Oxide	$Al_2O_3$	1344-28-1	0 - 80
Silicon Carbide	SiC	409-21-2	0 - 75
Zirconium Oxide	$ZrO_2$	1314-23-4	0 - 75
Cured Phenolic Resin	N/A	N/A	10 - 30
Calcium Oxide	CaO	1305-78-8	0 - 10
Iron Pyrite	FeS <sub>2</sub>	12068-85-8	0 - 20
Potassium Fluoborate	KBF <sub>4</sub>	14075-53-7	0 - 10
Graphite	С	7782-42-5	0 - 5
Fluorspar	CaF <sub>2</sub>	7789-75-5	0 - 10
Barium Sulfate	BaSO <sub>4</sub>	7727-43-7	0 - 10
Calcium Carbonate	CaCO <sub>3</sub>	471-34-1	0 - 10
Alkali Aluminum Fluorides	Various	60304-36-1 / 15096-52-3	0 - 15
Potassium Sulfate	K <sub>2</sub> SO <sub>4</sub>	7778-80-5	0 - 10
Fiberglass	N/A	65997-17-3	0 - 5

<sup>\*\*</sup>The exact percentage (concentration) of the composition has been withheld as a trade secret.

### **SECTION 4 - FIRST-AID MEASURES**

Required Treatment:

**Eyes:** Remove contact lenses if present. Flush eyes thoroughly with large amounts of water, holding eyelids open. If irritation persists, seek medical attention.

**Skin:** Wash skin with soap and water. If irritation or other symptoms develop, seek medical attention. **Ingestion:** Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or if you feel unwell.

**Inhalation:** Move to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

Symptoms – Effects, Acute Delayed: Dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Contains titanium dioxide. Prolonged overexposure to Respirable dust may increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure. Exposure to dust generated from processing the base material or coatings may present additional health hazards.

## **SECTION 5 - FIRE-FIGHTING MEASURES**

Extinguishing Techniques including Equipment:

Use any media that is suitable for the surrounding fire. Do not use water on fires involving metal dusts. Use an appropriate dry powder.

Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.



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Chemical Hazards from

Fire:

These products are not flammable or combustible; however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when machined or ground.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Environmental: Avoid contamination of water supplies and environmental releases. Report spills as

required by authorities.

Protective Equipment: Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of

dust

Methods of Containment

and Clean-Up:

Collect dry material, avoiding creating airborne dust. Place in a suitable container for disposal.

#### **SECTION 7 - HANDLING AND STORAGE**

Handling: Inspect wheel prior to mounting on machine for damage. Do not use at speeds greater than product

maximum rates per minute (rpm) as indicated. Use with adequate ventilation. Avoid breathing dust. Avoid eye and skin contact with grinding dust. Wear suitable eye protection, gloves and appropriate protective clothing. Wash thoroughly after handling. Consider potential exposure to components of the base materials or coatings being ground or cut. Refer to OSHA substance specific standards for

additional work practice requirements where applicable.

Storage: No special storage required. Avoid excessive temperatures in storage. Store in a dry area.

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	OSHA PEL total dust	ACGIH TLV
Aluminum Oxide	5 mg/m³	15 mg/m³	10 mg/m³
Silicon Carbide	5 mg/m³	15mg/m³	3 mg/m³
Zirconium Oxide	5 mg/m³	N/A	10 mg/m <sup>3</sup>
Cured Phenolic Resin	None Established	None Established	None Established
Calcium Oxide	5 mg/m³	N/A	2 mg/m³
Iron Pyrite	None Established	None Established	None Established
Potassium Fluoborate	2.5 mg/m <sup>3</sup>	N/A	2.5 mg/m <sup>3</sup>
Graphite	5 mg/m³	15 mg/m³	2 mg/m³
Fluorspar	2.5 mg/m <sup>3</sup>	N/A	2.5 mg/m <sup>3</sup>
Barium Sulfate	5 mg/m³	15 mg/m³	5 mg/m³
Calcium Carbonate	5 mg/m³	10 mg/m³	10 mg/m³
Alkali Aluminum Fluorides	2.5 mg/m <sup>3</sup>	N/A	2.5 mg/m³
Potassium Sulfate	15 mg/m³	N/A	10 mg/m <sup>3</sup>
Fiberglass	5 mg/m³	15 mg/m³	5 mg/m³

Ventilation: Engineering controls recommended. See ANSI Z43.1. Refer to OSHA 29 CFR 1910.94.

Respiratory: OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134

Eye Protection: Protective eyewear such as safety goggles, safety glasses or face shield is recommended. See

OSHA 29 CF1910.133.

Protective Gloves: Leather gloves.

Hearing Protection: Hearing protection such as earplugs or approved earmuffs. Refer to OSHA 29 CFR 1910.95.

Body/Skin Protection: Leather apron, fire retardant jacket/shirt/lab coat to shield from heavy spark showers in

operation.

Other Protections/Precautions: Visually inspect all wheels before mounting for possible damage. Do not operate above

maximum operating speed. Always use a guard. Refer to ANSI B7.1 for Safety Requirements

for the Use, Care and Protection of Abrasive Wheels.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Dark colored, solid bonded wheel. Solubility in water: Insoluble
Odor: None, faint phenolic odor Boiling Point: N/A

Flammability or Explosive Limits: Not flammable Flash Point: Not flammable

Vapor Pressure: N/A Evaporation Rate: N/A

Odor Threshold: N/A Flammability (solid, gas): Not flammable

Vapor Density: N/A Auto-ignition Temperature: N/A

pH: N/A Decomposition Temperature: 800 °F (425 °C)

Relative Density: N/A Viscosity: N/A

Melting Point/Freezing Point: N/A

#### **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity: Not reactive under normal conditions of use and storage.

Chemical Stability: Stable

Hazardous Polymerization: Will not occur

Other: Dust from grinding and cutting could contain potentially hazardous components of the base

material being ground or coatings applied to the base material.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

Chemical Name	Route of Exposure	Acute LD50
Aluminum Oxide	Oral	>10000 mg/kg (rat)
Silicon Carbide	Oral	>2000 mg/kg (rat)
Zirconium Oxide	Oral	>5000 mg/kg (rat)
Cured Phenolic Resin	N/A	No acute toxicity data available
Calcium Oxide	N/A	No acute toxicity data available
Iron Pyrite	N/A	No acute toxicity data available
Potassium Fluoborate	Oral	>5000 mg/kg (rat)
Graphite	Oral	>5000 mg/kg (rat)
Fluorspar	Oral	>4000 mg/kg (rat)
Barium Sulfate	Oral	>5000 mg/kg (rat)
Calcium Carbonate	Oral	>5000 mg/kg (rat)
Alkali Aluminum Fluorides	Oral	>5000 mg/kg (rat)
Potassium Sulfate	Oral	>5000 mg/kg (rat)
Fiberglass	N/A	No acute toxicity data available

Routes of Exposure: Inhalation, skin contact, eye contact and ingestion

Related Symptoms: Breathing in dust may cause irritation to the nose, throat and upper respiratory tract. May cause

abrasive skin irritation. May cause eye irritation and injury. Not toxic if ingested. Swallowing

may cause gastrointestinal disturbances or obstructions.

Acute and Chronic Effects: Prolonged inhalation of Respirable dust may cause adverse lung effects, including cancer.

Smoking may aggravate chronic effects. Prolonged exposure to elevated noise levels during operations may affect hearing. In most cases, the greater hazard is the exposure to the dust/fumes from the material (paint/coatings) being cut and ground. Most of the dust is generated during grinding and cutting of the base material and the potential hazard from this

exposure must be evaluated.

Carcinogenicity: Unknown
Mutagenicity: Unknown
Reproductive Effects Unknown

## **SECTION 12 - ECOLOGICAL INFORMATION\***

Data from Toxicity Tests: No adverse effects on aquatic organisms are expected.

## **SECTION 13 - DISPOSAL CONSIDERATIONS\***

Proper Disposal Practices: Disposal practices are in accordance with local, state and national regulations.

#### **SECTION 14 - TRANSPORT INFORMATION\***

Proper Transport of Hazard

Not regulated as a hazardous material for transport.

Material:

# **SECTION 15 - REGULATORY INFORMATION\***

Safety, Health and Environmental

No Data Available

Regulations:

#### **SECTION 16 - OTHER INFORMATION**

Date SDS Prepared: May 12, 2015 Last Revision Completed: May 12, 2015

Statement of Accuracy: The above information is believed to be correct but does not propose to be all inclusive and

shall be used only as a guide. Metabo Corporation shall not be held liable for any damage resulting from handling or from contact with the above products. This information relates only to the product designated herein and does not relate to its use in combination with any other

material or process.

<sup>\*</sup>Non-Mandatory