



SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identification: Rubber & Resin Bonded Abrasive Wheels

Product Name: Abrasive Cut-Off Wheels METS-ACUT-XXX-RBXX

SECTION 2 - Hazard Information

2.1 Precautionary statements

Use with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use. Observe recommended operating speeds.

2.2 Description of Hazards

Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes. Using wheels in excess of recommended operating speeds may result in serious injury due to wheel breakage.

SECTION 3 - Composition

Ingredient	Formula	% Weight	OSHA Regulated	Cas #
Aluminum Oxide	Al ₂ O ₃	0 - 95	N/A	1344-28-1
Silicon Carbide	SiC	0 - 95	N/A	409-21-2
Zirconia Oxide	ZrO ₂	0 - 80	N/A	1314-23-4
Cured Phenolic Resin	N/A	1 - 30	N/A	N/A
Cured Rubber Compounds	N/A	1 - 20	N/A	N/A
Iron Pyrite	Fe ₂ S ₃	0 - 20	N/A	12068-85-8
Woven Fiberglass	N/A	0 - 15	N/A	N/A
Sulfur	S ₈	0 - 15	N/A	7704-34-9
Cryolite	Na ₃ AlF ₆	1 - 10	N/A	15096-52-3
Cured Epoxy Resin	N/A	1 - 10	N/A	N/A
Manganese Chloride	MgCl ₂	1 - 10	N/A	7773-01-5
Titanium Dioxide	TiO ₂	0 - 5	N/A	13463-67-7
Calcium Carbonate	CaCO ₃	0 - 5	N/A	1317-65-3
Calcium Oxide	CaO	0 - 5	N/A	1305-78-8
Potassium Aluminum Fluoride	KAIF ₄	0 - 5	N/A	14484-69-6
Potassium Fluoroborate	KBF ₄	0 - 5	N/A	14075-53-7
Iron Oxide	Fe ₂ O ₃	0 - 5	N/A	1309-37-1
Carbon Black	C	0 - 5	N/A	1333-86-4

SECTION 4 - First Aid

4.1 First Aid for exposure

Remove to fresh air, wash eyes with water, wash skin with soap and water, obtain first aid or medical assistance as deemed necessary.

4.2 Signs and Symptoms of Exposure

Could cause coughing and shortness of breath due to dust. May affect breathing, irritate eyes, and cause skin irritation. Pre-existing respiratory disease may be aggravated.

SECTION 5 - Fire Fighting Measures

5.1 Means Of Extinction: Use any media that is appropriate for the surrounding fire.

5.2 Unusual Fire or Explosion Hazards: This product is not 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.

5.3 Special Fire Fighting Procedures: None needed.

SECTION 6 - Accidental Release Measures

Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.

SECTION 7 - Storage, Handling and Use Procedures

7.1 Handling: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Refer to ANSI B7.1 Safety Code for additional information.

Consider potential exposure to components of the base materials or coating being ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

7.2 Storage: Store in accordance with ANSI B7.1 Safety Code. Protect abrasive wheels from damage.

SECTION 8 - Personal Protective Control Measures

8.1 Exposure limits

Chemical	OSHA PEL	ACGIH TLV
Aluminum Oxide	15 mg/m ³	10 mg/m ³
Silicon Carbide	15 mg/m ³	10 mg/m ³
Zirconium Oxide (as zirconium)	5 mg/m ³	5 mg/m ³
Cured Phenolic Resin	None established	None established
Cured Rubber Compounds	None established	None established
Iron Pyrite	None established	None established
Woven Fiberglass	10 mg/m ³	5 mg/m ³
Sulfur	15 mg/m ³	10 mg/m ³
Cryolite (as fluorides)	2.5 mg/m ³	2.5 mg/m ³
Cured Epoxy Resin	None established	None established
Titanium Dioxide	15 mg/m ³ (fume)	10 mg/m ³
Calcium Carbonate	15 mg/m ³	None established
Calcium Oxide	5 mg/m ³	2 mg/m ³

Potassium Aluminum Fluoride	2.5 mg/m ³	2.5 mg/m ³
Potassium Fluoroborate (as fluorides)	2.5 mg/m ³	2.5 mg/m ³
Iron Oxide	10 mg/m ³	5 mg/m ³
Carbon Black	3.5 mg/m ³	3.5 mg/m ³

Note: Consider also compounds of base materials and coatings being ground.

8.2 Personal protection requirements and referrals

Respiratory: Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive.

Ventilation: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Protective Gloves: Cloth or leather gloves recommended.

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

Hearing Protection: Elevated sound levels may result during operation. Use ear protection as necessary.

Hygienic Practices: Follow good general industrial safety practices during use.

SECTION 9 - Physical/Chemical Characteristics

Boiling Point: Not applicable	Specific Gravity: Not applicable
Vapor Pressure: (mm Hg) Not applicable	Melting Point: Not applicable
Vapor Density: (air = 1) Not applicable	Evaporation Rate: (Butyl Acetate=1) Not applicable
Solubility in Water: Insoluble	Appearance: Black, green or reddish colored rigid wheel
Lower And Upper Explosion Limits: Not applicable	Odor: None
Flash Point: Non-combustible	

SECTION 10 - Stability and Reactivity Data

Stability: Stable

Incompatibility: None known.

Hazardous Decomposition Products: Dust from grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.

Hazardous Polymerization: Will not occur.

SECTION 11 - Toxicological Data

11.1 Component information

<u>Chemical</u>	<u>Short term effects</u>	<u>Long term effects</u>	<u>Carcinogen</u>
Aluminum Oxide	Oral rat LD50 > 5,000 mg/kg	No data available	Not carcinogenic
Cryolite	Oral rat LD50 > 5,000 mg/kg	No data available	Not carcinogenic
Titanium Dioxide	Oral rat LD50 > 10,000 mg/kg	No data available	2B as listed by IARC
Calcium Carbonate	Oral rat LD50 = 6,450 mg/kg	No data available	Not carcinogenic
Potassium Aluminum Fluoride	No data available	No data available	3 as listed by IARC
Manganese Chloride	Oral rat LD50 = 250 mg/kg	May cause fluorosis	No data available
Carbon Black	Oral rat LD50 > 15,400 mg/kg	No data available	2B as listed by IARC
Glass Filaments	No data available	No data available	2B as listed by IARC

11.2 Route(s) of Entry and symptoms of exposure

See section 4.2

SECTION 12 - Ecological Information

No ecological data is available for this product. No hazards to the environment are expected from this product. However, consideration must be given to potential environment effects of the base material being processed.

SECTION 13 - Disposal Considerations

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations

SECTION 14 - Transport Information

DOT Hazardous Materials Description: Not regulated

Proper Shipping Name: Not regulated

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

SECTION 15 - Regulatory Information

SARA Section 311/312 Hazard Categories: Not Applicable (manufactured articles)

SARA Section 313: Some products contain the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting): None

California Proposition 65: WARNING! You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

Canadian WHMIS Classification: Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations. This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

SECTION 16 - Other Information

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