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Personal Protection	F

SAFETY DATA SHEET

RESIN BONDED CUT-OFF WHEEL

Section 1: Identification

Product Name: Resin Bonded Cut-Off Wheel

Manufacturer: Motor Guard Corporation
580 Carnegie Street
Manteca, CA 95337-6141
United States of America
Phone: (800) 227-2822
Fax: (800) 237-7581

Manufacturer Part Number / Description: JMC300AL, JMC400AL, Magna-Cutter Resin Bonded Cut-Off Wheel for Aluminum

Distributor: Motor Guard Corporation
580 Carnegie Street
Manteca, CA 95337-6141
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Section 2: Hazards Identification

Hazard Classification: Although this product is not classified as hazardous according to applicable GHS hazard classification criteria the potential for respiratory tract irritation from the respirable dust produced during the use of this product is recognized. See Sections 8, 11, 14 and 15 for further regulatory information.

Appearance: Solid, Dark Brown

Potential Acute Health Effects:

Eyes: Dust may cause mechanical irritation
Skin: Dust and glass fiber reinforcement may cause mechanical irritation
Ingestion: Unknown
Inhalation: Dust may cause mechanical irritation of the respiratory tract
Other: None

Potential Chronic Health Effects:

Inhalation: N/A
Target Organs: N/A

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Section 3: Composition / Information on Ingredients

May contain one or more of the following:

CAS#	Chemical Name	Chemical Symbol	% by Weight*
65997-17-3	Glass Fiber	N/A	0.5
1344-28-1	Aluminum Oxide	Al ₂ O ₃	50-90
13463-67-7	Silicon Carbide	SiC	10-90
1314-23-4	Zirconium Oxide	ZrO ₂	10-50
9003-35-4	Cured Phenolic Resin	N/A	10-20
15096-52-3	Cryolyte	N/A	0-20
13983-19-0	Wallastonite	N/A	0-20

* The exact percentage (concentration) of the composition has been withheld has a trade secret.

Section 4: First-Aid Measures

Eye Contact:	Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing. Immediately wash skin with soap and water and flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion:	Loosen tight clothing. Do not induce vomiting unless directed to do so by emergency personnel. Seek medical attention.
Antidote:	None reported

Most Important Symptoms/Effects:

Acute N/A

Delayed N/A

Indication of Immediate Medical Attention and Special Treatment Needed:

Treat symptomatically and supportively

Section 5: Fire-Fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media appropriate for surrounding fire.

Specific Hazards Arising from the Chemical: This product is not combustible, however, consideration must be given to the potential fire or explosion hazards from the base metal and dust being processed.

Flammability:	Non-Flammable	Explosion Limits:	LEL: N/A	UEL: N/A
Auto-Ignition Temp.:	N/A	Products of Combustion:	N/A	
Flash Point:	N/A	Unusual Fire / Explosion Hazards:	None	
NFPA Rating:	None	Special Fire-Fighting Procedures:	None	

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Section 6: Accidental Release Measures

Personal Protection: Use proper personal protective equipment as indicated in Section 8.
Procedures for Spills/Leaks: Use appropriate tools to place spilled solid in a container. Dispose of as indicated in Section 13.

Section 7: Handling and Storage

Handling: Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
Storage: Store in a properly labeled, tightly closed container in a cool, dry place. Products made with cured resins will deteriorate in strength over time.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local and general exhaust to keep airborne levels below permissible exposure limits.

Exposure Limits:

Glass Fiber:
ACGIH: TLV = 5 mg/M³ (Respirable Fraction)
OSHA: TWA = 5 mg/M³ (Respirable Fraction)
TWA= 15 mg/M³ (Total Dust)

Aluminum Oxide:
ACGIH: TLV = 10 mg/M³ (Respirable Fraction)
OSHA: TWA = 5 mg/M³ (Respirable Fraction)
TWA= 15 mg/M³ (Total Dust)

Silicon Carbide:
ACGIH: TLV = 3 mg/M³ (Respirable Fraction)
OSHA: TWA = 5 mg/M³ (Respirable Fraction)
TWA= 15 mg/M³ (Total Dust)

Zirconium Oxide:
ACGIH: TLV = 10 mg/M³ (Respirable Fraction)
OSHA: TWA = 5 mg/M³ (Respirable Fraction)
TWA= N/A (Total Dust)

Cured Phenolic Resin:
ACGIH: None Established
OSHA: None Established

Cryolyte:
ACGIH: None Established
OSHA: None Established

Wallastonite:
ACGIH: None Established
OSHA: None Established

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Personal Protective Equipment:

Eyes: Protective goggles or a full face shield should be worn at all times when using product.

Ears: Hearing protection should be worn as use of this product may create elevated sound levels.

Skin: Gloves and protective clothing should be worn to minimize skin contact with product.

Lungs: A NIOSH approved respirator should be worn at all times when using product. Consider the potential for exposure to components of the coatings or base material being ground in selecting proper respiratory protection. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Evaporation Rate:	N/A
Appearance:	Dark Brown	Viscosity:	N/A
Odor:	Faint Phenolic Odor	Boiling Point:	N/A
Taste:	None	Melting Point:	N/A
pH:	N/A	Solubility:	Insoluble in H ₂ O
Vapor Pressure:	N/A	Specific Gravity:	1.6 – 2.4
Vapor Density:	N/A	Molecular Weight:	N/A

Section 10: Stability and Reactivity Data

Stability:	Stable
Instability Temp.:	N/A
Conditions to Avoid:	Avoid Incompatible Material
Conditions of Instability:	None
Corrosivity:	None
Hazardous Decomposition Products:	Dust from sanding could contain ingredients in Section 3 and other, potentially more hazardous components of the base material being sanded or by coatings applied to the base material.
Special Notes on Reactivity:	None

Section 11: Toxicological Information

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

Related Symptoms: Inhalation of 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. Ingestion of solid product may cause gastrointestinal disturbances or obstructions.

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Acute and Chronic Effects:

Health Hazards:	Prolonged inhalation or respirable dust may cause adverse lung effects. Prolonged exposure to elevated noise levels during grinding operations may affect hearing. In most cases, the greater hazard is the exposure to the dust/fumes from the material being cut and ground. The potential hazard from this exposure must be evaluated.
Carcinogenicity:	None of the components in this product are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.
Mutagenicity:	Unknown
Reproductive Effects:	Unknown

Numerical Measures of Toxicity: This product and its components are not acutely toxic. Any data available on the acute toxicity of the components is listed below.

Aluminum Oxide	LD50 >5,000 mg/kg Oral rat LC50 >7.6 mg/L/1 hr Inhalation rat
Silicon Carbide	LD50 >2,000 mg/kg Oral rat LC50 >2,000 mg/kg Dermal rat
Zirconium Oxide	LD50 >5,000 mg/kg Oral rat LC50 >4.3 mg/L/4 hr Inhalation rat
Cryolyte	LD50 >10,000 mg/kg Oral rat LC50 >2,000 mg/kg Dermal rabbit

Section 12: Ecological Information

Ecotoxicity:	No adverse effects are expected
Biopersistence:	N/A
Biodegradability:	N/A
Potential of bioaccumulation:	No information reported
Mobility in soil:	No information reported
Other adverse effects:	None known

Section 13: Disposal Considerations:

Waste Disposal: Dispose of in a manner consistent with federal, state and local regulations

Section 14: Transport Information

DOT Classification:	Not a DOT controlled material (United States)
Identification:	N/A
Special Provisions for Transport:	None

