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Material Safety Data Sheet ALUMINUM OXIDE RUBBER BONDED ABRASIVE DISCS

Page 1 of 6

This Material Safety Data Sheet for Aluminum Oxide Rubber Bonded Abrasive Discs & Wheels covers all of the items listed below:

- 1. Red Flash Discs and Wheels
- 2. Dura-Thin
- 3. High Speed Discs
- 4. Cutoff Wheels: 1 ½ .025, 1 ½ .040, 1 ¼ .062
- 5. Mizzy Red Heatless Wheels
- 6. Mizzy White Heatless Wheels
- 7. Roughing Discs

See attached sheets for ingredients that are contained in the above products.



MSDS#:

Material Safety Data Sheet ALUMINUM OXIDE RUBBER BONDED ABRASIVE DISCS

Page 2 of 6

Grinding Wheel:

A wheel in which abrasive particles are embedded into, and held together by, a matrix or bond.

Purposes:

Remove material (Mounted Stone, Mizzy Heatless Wheel) Cut material (Cutoff Wheels, Red Flash Discs and Ultra-Thin) Finish (polish)

Bond Types:

Vitrified Inorganic Bonds

Oxichloride

Resin Organic Bonds

Rubber

Rubber Grades:

Soft Rubber: Pliable, i.e. Rubber Wheels, Kegold Wheels, Clasp Polishers

Hard Rubber: Cutoff Wheels, Separating Discs, Veri-Thin, Ultra-Thin, Dura-Thin, Ultra-Flex, Red

Flash, R.F. Finishing Wheels

Abrasive Types:

Aluminum Oxide: (red, brown, white) Primarily used on metallics Silicon Carbide: (black, green) Primarily used on non-metallics

Contamination:

Silicon carbide abrasive is non-contaminating – cannot cause bubbles. The danger of contamination today is practically negligible since firing is done in a vacuum.

Abrasive Grit Size:

Medium – 90 to 150 Fine – 180 to 240 X Fine – 280 – 320

Operating Speeds:

Wheels are rated in Surface Feet Per Minute (SFM) which is converted to Revolutions Per Minute (RPM).

Rating factors are: Diameter

Bond Type

Overhang (mounted & unmounted points)

All Keystone items $1\frac{1}{2}$ " diameter and less are rated at 30,000 RPM. Rubber points are rated at 30,000 RPM with a $\frac{1}{2}$ " overhang or less.



MSDS#:

Material Safety Data Sheet ALUMINUM OXIDE RUBBER BONDED ABRASIVE DISCS

Page 3 of 6

Section 1 – Identification of the Substance/Preparation and of the Company/Undertaking

Product Name: ALUMINUM OXIDE RUBBER BONDED

ABRASIVE DISCS & WHEELS

Chemical Name:

Family: Abrasive Products inc: Red Flash Discs & Wheels, Dura-Thin, High Speed Discs, Cutoff Wheels, Knife Edge Wheels, Mizzy Red &

White Heatless Wheels

Product Use:

Product #: -- Various

MSDS Initial Approval Date:	July 2002
MSDS Prepared by:	S.Rohmer/RMP

Manufacturer: Keystone Industries

616 Hollywood Av Cherry Hill, NJ 08002

Emergency Phone Numbers: (800) 535 - 5053

Information Contacts: (856) 663 - 4700

Section 2 - Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure OSHA	Limits ACGIH	Carcinogen	%
				TWA/STEL	TWA/STEL	IARC/NTP/OSHA	
Aluminum Oxide	1344-28-1			15 mg/m ³	10 mg.m ³	N/A	<80%
Iron Oxide	1309-37-1			15 mg/m ³	10 mg.m^3	N/A	<10%
Titanium Oxide	13463-67-7			15 mg/m ³	10 mg.m^3	N/A	<10%
Acrylonitrile	107-13-1			> 1 ppm		N/A	<.0001%
Butadiene	106-99-0			> 0.02 ppm		N/A	<.0001%
Cashew, nutshell liquid, polymer with formaldehyde	67700-42-9					N/A	<1%
and phenol							

Hazard Symbols: Risk Phrases: Safety Phrases

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

• This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Eyes, inhalation

Eye Dust may irritate eyes.

Skin Some may experience skin irritation from dust.

Ingestion No known adverse effects but, ingestion not recommended.

Inhalation Acute: Coughing, shortness of breath. Chronic: May affect breathing capacity.

Other Grinding may create elevated sound levels which may affect hearing.

Sub-Chronic Effects

NOTE: Refer to Section 11, Toxicological Information for Details

Section 4 - First Aid Measures

First Aid for Eye Wash with large amounts of water. Obtain first aid and medical assistance if needed.

First Aid for Skin Wash affected areas with soap and water.

First Aid for Inhalation Remove person to fresh air. Apply artificial respiration as needed. Obtain medical assistance.

First Aid for Ingestion Obtain medical assistance.

Section 5 - Fire Fighting Measures

Flash Point	Flammable Limit	Auto-ignition Temperature
(°F/°C)	(vol%)	(vol%)
N/A	LEL: N/A	N/A



MSDS#:

Material Safety Data Sheet

ET ALUMINUM OXIDE RUBBER BONDED ABRASIVE DISCS

Page 4 of 6

UEL:.N/A

Method:

Extinguishing Media: Use water Fire Fighting Instructions: None

Unusual Hazards: No applicable information found

Section 6 - Accidental Release Measures

Spill or Release Procedures Normal clean-up procedures

Section 7 - Handling and Storage

Handling Normal use – handle with adequate ventilation

Storage Normal dry storage

Explosion Hazard

Section 8 - Exposure Controls / Personal Protective Equipment

Engineering Controls

Personal Protective Equipment

General Local exhaust and ventilation recommended.

Eye/ Face Protection Recommended. See OSHA 29 CFR 1910.133 – Face and Eye Protection

Skin Protection Protective gloves as desired by user.

Respiratory Protection As needed. For approved dust respirators, see OSHA 29 CFR 1910.134 – Respiratory Protection.

Other Protective Clothing As needed, hearing protection. See OSHA 29 CFR 1910.215 – Hearing Protection.

or Equipment

Section 9 - Physical and Chemical Properties

Appearance	Odor & Odor Threshold	PН	Specific Gravity (H ₂ O = 1)	Viscosity	% Volatile
Solid, coated abrasive product	May produce odor in use.	N/A	2 - 4		No applicable information found

Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w		Vapor Density (AIR = 1)	Evaporation Rate (Butyl Acetate = 1)	Ignition	Solubility In Water
No applicable			No applicable	No applicable			Slight
information			information	information			
found			found	found			
]	Flash Point		Flammable 1	Limit	Auto	ignition Temp	erature
	(° F /° C)		(vol%)		(vol%)		
	N/A	LEL – N/A		/A		N/A	
			UEL – N	/A			

Section 10 - Stability and Reactivity

Stability: Incompatibility (Materials to Avoid):

Stable No applicable information found Hazardous Decomposition Products: Hazardous Polymerization:

Dust is generated in use. In most cases, the material removed from the work Will not occur

visco will be significantly greater than the grinding wheel components

piece will be significantly greater than the grinding wheel components. **Conditions to Avoid:**

No applicable information found

Section 11 - Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye



MSDS#:	
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Page 5 of 6

Material Safety Data Sheet

ALUMINUM OXIDE

RUBBER BONDED ABRASIVE DISCS

Sensitization	Mutagenicity	Sub-chronic Toxicity
No toxicological information determined.		

Section 12 - Ecological Information

Ecotoxicological Information

Acute Toxicity To Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria	
No ecotoxicological information determined.					

Chemical Fate Information

Biodegradability	
Chemical Oxygen Demand	
No chemical fate information determined	

Environmental Fate Information

Section 13 - Disposal Considerations

Standard landfill methods consistent with applicable Local, State and Federal laws.

Section 14 - Transport Information

Proper Shipping Name:	Not regulated
Identification Number:	
Marine Pollutant:	
Special Provisions:	
Emergency Response Guidebook (ERG) #:	

Section 15 - Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	
Clean Water Act:	
EDA E ID I ' GO	
FDA: Food Packaging Status	
Occupational Safety and Health Act	
RCRA	•
SARA Title III: Section 302 (TPQ)	
SARA Title III: Section 302 (RQ)	
SARA Title III: Section 311-312:	Fire hazard – no
	Pressure hazard – no
	Reactivity hazard – no
	Immediate hazard - yes
	Delayed hazard – no
SARA Title III: Section 313:	None
TSCA Section 8(b): Inventory:	
TSCA Significant New Use Rule:	



Material Safety Data Sheet ALUMINUM OXIDE

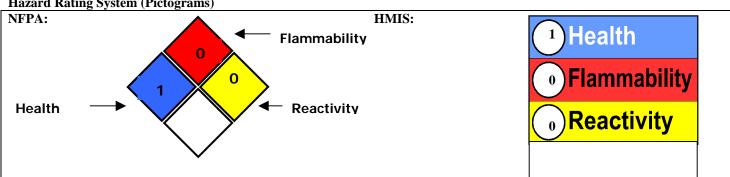
RUBBER BONDED ABRASIVE DISCS

Page 6 of 6

State Regulations	
CA Right-to-Know Law: California No Significant Risk Rule:	
MA Right-to-Know Law:	
NJ Right-to-Know Law:	
PA Right-to-Know Law:	
FL Right-to-Know Law:	
MN Right-to-Know Law:	
International Regulations	
CDSL: Canadian Inventory	
(On Canadian Transitional List)	
EINECS: European Inventory:	
	 HAZARD SYMBOLS:,
	• RISK PHRASES
	• SAFETY PHRASES:

Section 16 - Other Information





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