

# MATERIAL SAFETY DATA SHEET



SUN ABRASIVES CO., LTD

SECTION I - CHEMICAL PRODUCT AND COMPANY INFORMATION	
MANUFACTURER'S NAME <b>SUN ABRASIVES CO., LTD</b>	ISSUED DATE <b>10/14/2004</b>
ADDRESS (Zip Code) <b>628-4 SONGKOG-DONG ANSAN-CITY, KYONGGI-DO, KOREA (425-110)</b>	EMERGENCY TELEPHONE NO. <b>82-31-495-6076</b>
PRODUCT NAME <b>Aluminium Oxide Coated Abrasives</b>	
TRADE NAME <b>R321</b>	
Important notice Coated abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific measures to protect the operators. During the grinding operation 90% or more of the particulates of the dust come from the material being ground and, for wet grinding, from aerosols generated by grinding fluid. Specific attention must therefore be given to the nature of the part and of the fluid and the appropriate protection devices must be installed.	

SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS			
COMPONENT	MATERIAL	Percent(%)	CAS.NO
<b>Backing</b>	<input type="checkbox"/> Paper		
	<input type="checkbox"/> Cotton cloth		
	<input checked="" type="checkbox"/> Cloth containing polyester	20 ~ 70	n/a
	<input type="checkbox"/> Polyester		
	<input type="checkbox"/> Combination(Paper/Cloth)		
	<input type="checkbox"/> Combination(Paper/Polyester film)		
	<input type="checkbox"/> Others:		
<b>Abrasive grain</b>	<input checked="" type="checkbox"/> Aluminium Oxide	20 ~ 45	1344-28-1
	<input type="checkbox"/> Silicon Carbide		
	<input type="checkbox"/> Zirconia Alumina		
	<input type="checkbox"/> Others :		
<b>Bonding resin</b>	<input checked="" type="checkbox"/> Cured Phenolic Resin	5 ~ 20	9003-35-4
	<input type="checkbox"/> Epoxy Resin		
	<input type="checkbox"/> Cured Urea/Melamine resin		
	<input type="checkbox"/> Glue		
	<input type="checkbox"/> Others:		
<b>Filler</b>	<input checked="" type="checkbox"/> Calcium Carbonate	1 ~ 20	16389-88-1
	<input type="checkbox"/> Cryolite		
	<input type="checkbox"/> Metal Soap		
	<input type="checkbox"/> Others : Other Inorganic fluorides		

SECTION III - PHYSICAL DATA			
BOILING POINT ( °C )	n / a	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	n / a
VAPOR PRESSURE (mm Hg.)	n / a	PERCENT,VOLATILE BY VOLUME (%)	n / a
VAPOR DENSITY (AIR=1)	n / a	EVAPORATION RATE (Butyl Acetate =1)	n / a
SOLUBILITY IN WATER	n / a	APPERANCE AND ODOR	n / a

SECTION IV - FIRE AND EXPLOSION HAZARD DATA					
FLASH POINT (METHOD USED)	n / a	FLAMMABLE LIMITS	n / a	LEL	UEL
				n/a	n/a
EXTINGUISHING MEDIA <div style="text-align: center;">Water , CO<sub>2</sub>, Foam , Dry Chemical</div>					
SPECIAL FIRE FIGHTING PROCEDURES <div style="text-align: center;">None</div>					
UNUSUAL FIRE AND EXPLOSION HAZARDS <div style="text-align: center;">None</div>					



SECTION V - HEALTH HAZARD DATA			
THRESHOLD LIMIT VALUE	n / a	EFFECTS OF OVEREXPOSURE	n / a
EMERGENCY AND FIRST AID PROCEDURES			
<b>Skin Contact : Wash with soap and water</b> <b>Eye Contact : Flush eyes with large quantities of water obtain first aid and medical assistance, if need.</b> <b>Inhalation : Remove to Fresh Air. If breathing has stopped, give artificial respiration.</b> <b>Get medical attention immediately.</b>			
SECTION VI - REACTIVITY DATA			
STABILITY	<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITION TO AVOID	None
INCOMPATIBILITY (MATERIALS TO AVOID)	Strong acids, Strong bases & Strong oxidizing agents may modify the mechanical characteristics of the products and create safety hazards when used on machines.		
HAZARDOUS DECOMPOSITION PRODUCT	In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the coated abrasives components.		
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITION TO AVOID	None
SECTION VII - SPILL OR LEAK PROCEDURES			
STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED			
No special procedures.			
WASTE DISPOSAL METHOD			
After use, Coated abrasives may be contaminated with hazardous materials (particle or cooling agents) and should be disposed of in accordance with national regulations.			
SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (SPECIFY TYPE)			
Respirators are required when airborne contaminant levels exceed the TLV(S).			
VENTILATION	LOCAL EXHAUST	Utilize local exhaust to keep airborne concentration below limits	SPECIAL n / a
	MECHANICAL (GENERAL)	Appropriate hoods and dust collection recommended	OTHER n / a
PROTECTIVE GLOVES	Recommended when grinding to prevent skin abrasion	EYE PROTECTION	Always wear safety glasses or some type of eye protection while sanding.
OTHER PROTECTIVE EQUIPMENT			
Use of this product may create elevated sound levels. Hearing protection should be worn where required.			
SECTION IX - SPECIAL PRECAUTIONS			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING			
Store coated abrasives in moderate constant temperature and humidity conditions.			
OTHER PRECAUTIONS			
None			