ALUM	INUM OX	KIDE RESIN E	BONDED G	RINDING WHE	EL		
BUDW	22		Emergency	Phone Number:			
RADNOR WELDING PRODUCTS		866-734-3438					
Date: April 30, 2006		Product Information Number: 888-838-0615					
	SEC	TION 1 – PRODU					
roduct Name/Class		n Oxide Resin Bon					
roduct Number	004026		2				
anufacturer	Radnor We	dnor Welding Products 259 N. Radnor-Chester Road Suite 100 Radnor, PA 19087-5283					
	SEC	TION 2 – HAZAR	DOUS INGRE				
Material		CAS Number	% By Weight	t ACGIH TLV	OSHA		
Aluminum Oxide, Non-fibrous		1344-28-1	90 - 95	10 MG/M ³	15 MG/M ³		
Cured Phenol Formaldehyde		9003-35-4	3 - 6	ND	ND		
Resin Fiberglass		65997-17-3	1 - 3	ND	ND		
Iron Disulfide		12068-85-8	1 - 3	ND	ND		
D = No data availab							
		ON 3 – PHYSICA	L CHARACT	ERISTICS			
Boiling Point: SEC 1		Specific Gravity $(H_2O = 1)$:		Solubility in Water :			
N/A 1		N/A		N/A			
		Melting Point: N/A		%Volatile: N/A			
Vapor Density (Air = 1): E		Evaporation Rate (Butyl Acetate=1):		Appearance and Odor:			
/A		A FIDE LEY		Solid article. Odorl	ess		
-h Daint (Mathad)		4 – FIRE and EX	PLOSION HA	LEL: N/A			
Flash Point (Method Used): N/A		Flammable Limits:		UEL: N/A			
Extinguishing Media: N/A				ULL. IVA			
ecial Fire Fighting nite combustibles a e work area that co 19.1 for fire prevent nusual Fire and E rticulate matter res vironments. Use w	xplosion Ha ulting from s	zards: Solid massi anding and grindin	Sparks from lel storage cans g operations. F nd allied proced ive form is no g operations ma	grinding and sanding , paper, cloth and oth Refer to American Na ures. t combustible. Susp ay present explosion b	operations can er material from ational Standard pended airborne nazard is certain		
		SECTION 5 - REA	ACTIVITY DA	ТА			
	stable 🗌		Conditions to Avoid: Acids of all types with a pH of less than				
Stable 4.0. Incompatibility (Materials to Avoid): Acids of all ty			es with a nH of	less than 4.0			
					v be generated		
Hazardous May Occur		yproducts: In use, dust and decomposing odors may be generated uce trace amounts of phenol and formaldehyde. Conditions to Avoid: N/A					
Polymerization Wi	ll Not Occur						
		CTION 6 - HEAL					
	Inhalation		Ingestion	Eyes			
ncentrations. Chro nerated during use posure may cause	nic: May aff may contai skin sensi exposure ha	ect breathing capac n trace amounts of tization and airwa s been shown to	city or aggravate f phenol and for y obstruction. increase bone of	g to eyes and respiratory e existing respiratory prmaldehyde, which, For products conta density. No known	disorders. Dust under excessive ining inorganic		
arcinogenicity: The	composition vable to the this produc such particul ces as reco	n of dust/particulate product manufactu t is used, and any ates may contain to mmended by ANS	e matter are dependent	pendent upon several l largely upon the con y have been applied inogenic materials, ar der normal handling	nnosition of the		

Signs and Symptoms of Exposure: Short-term (acute) overexposure may result in discomfort such as irritation of nose, throat, or eyes. Some may experience skin irritation. Long-term (chronic) overexposure to dust may result in respiratory tract disorders.

Medical Conditions Generally Aggravated by Exposure: May aggravate pre-existing respiratory problems (e.g. asthma, emphysema).

Emergency and First Aid Procedures: Call for medical aid. Employ first aid techniques recommended by the American Red Cross. IF BREATHING IS DIFFICULT give oxygen. IF NOT BREATHING employ CPR (Cardiopulmonary Resuscitation) techniques. Flush eyes with water. Vacuum off excess dust from skin. Wash well with soap and water. Remove to fresh air. If ingested, call poison control center, hospital emergency room or physician immediately.

HMIS Rating	HMIS Scale	NFPA Rating	NFPA Scale
Health $= 1$	4 = Severe Hazard	Health $= 1$	4 = Severe Hazard
Flammability = 0	3 = Serious Hazard	Flammability = 0	3 = Serious Hazard
Reactivity $= 0$	2 = Moderate Hazard 1 = Slight Hazard	Reactivity $= 0$	2 = Moderate Hazard 1 = Slight Hazard
	0 = Minimal Hazard	Other = N/A	0 = Minimal Hazard

SECTION 7 – PRECAUTIONS for SAFE HANDLING and USE

General: Should be used in accordance with 29 CFR 1910.211-214 & 1910.241-243. Always handle and store wheels in a safe manner. Always inspect wheels before mounting. Always check machine speed against the established maximum safe operating speed marked on the wheel. Always check mounting flanges for equal and correct diameter. Always ensure work rest is properly adjusted. Always use a safety guard covering at least one-half of the wheel. Always allow newly mounted wheels to run at operating speed, with guard in place, for at least one minute before using. Always turn off coolant before stopping wheel to avoid creating an out-of-balance wheel.

Steps to Be Taken in Case Material Is Released or Spilled: If large quantities of dust are spilled, remove by vacuuming or wet sweeping to prevent heavy concentration of airborne dust. Follow federal, state and local regulations concerning disposal of waste.

Waste Disposal Method: Use standard landfill methods. Discard any product residue, disposable container, or liner in an environmentally acceptable manner. Products with listed flourides may be slightly soluble.

Precautions to Be Taken In Handling and Storing: Good housekeeping must be practiced during storage, transfer and use, to avoid excessive dust accumulations. See Section 8.

SECTION 8 – CONTROL MEASURES

Respiratory Protection (Specify Type): If exposure is above the PEL or TLV, use NIOSH approved respirator for fume and dust.

Ventilation: Use local exhaust ventilation when general ventilation is not keeping the airborne concentration below the TLV.

Protective Gloves: Standard work gloves, preferably leather, required during use.

Eye Protection: Always wear eye protection during sanding or grinding operations.

Other Protective Clothing or Equipment: Use of this product may create elevated sound levels. Hearing protection should be worn when required. (See OSHA 29 CFR 1910.134 and other applicable regulations.)

Work/Hygienic Practices: Wash hands thoroughly after use, and before eating, drinking, smoking, applying cosmetics or contact lenses. Maintain exposure below the PEL/TLV. Use industrial hygiene monitoring to ensure that your use of this material does not create exposures which exceed PEL/TLV. Always use exhaust ventilation. Refer to the following sources for important additional information. ANSI Z49.1, The American Welding Society, P.O. Box 351040, Miami, FL 33135, OSHA (29CFR 1910) U.S. Department of Labor, Washington, D.C. 20210.

OTHER INFORMATION REQUIRED BY STATE OR FEDERAL LAW

California Proposition 65 Information: Warning: This product contains a chemical known to the State of California to cause cancer or birth defects or reproductive harm.

New Jersey Right-To-Know Information: 5 most predominant ingredients/hazardous and non-hazardous): 1. Aluminum oxide; 2. Cloth or paper; 3. Cured phenol formaldehyde resin; 4. Animal glue bond; 5. Cured urea formaldehyde resin.

SARA Title III Notification Information: All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Super Fund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Disclaimer of Expressed and Implied Warranties: The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use.