



REC'D AUG 14 2006

**MATERIAL SAFETY DATA SHEET**
*Betinger*  
*KCTC*
**SECTION I: IDENTIFICATION**

Manufacturer: DeWalt Abrasives  
 1108 Commerce Street  
 Marshall, TX 75672  
 (903) 935-1906 (Emergency)

Hazard: Health: 1  
 Rating: Flammability 0  
 Reactivity 0

Product Name: Resinoid Bonded Cutting Off and Grinding Wheels  
 Product Type: Metal (ferrous)

**SECTION II: COMPOSITION PER 20CFR 1910.1200(G)(4)**

	Chemical Name	Max%	Common Name	CAS#	OSHA PEL	ACGIH TLV	Carcinogenic Y/N
1)	Aluminum oxide	90	Same	1344-28-1	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	No
2)	Cured Phenolic resin	20	Same	NAIF*	NAIF*	10mg/m <sup>3</sup>	No
3)	Sodium aluminum fluoride	20	Cryolite	15096-52-3	2.5mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>	No
4)	Iron disulfide	20	Iron Pyrites	12068-85-8	NAIF*	NAIF*	No
5)	Fiberglass discs	15	Same	NAIF*	NAIF*	10mg/m <sup>3</sup>	No
6)	Calcium fluoride	20	Fluorspar	14542-23-5	5.3mg/m <sup>3</sup>	5.3mg/m <sup>3</sup>	No
7)	Furfural	3	Same	98-01-1	5ppm	2ppm	No

**SECTION III: PHYSICAL DATA**

Boiling Point (°F):	N/A**	Specific Gravity (H <sub>2</sub> O=1):	Varies
Vapor Pressure (mm Hg):	N/A**	% Volatile by Volume:	0
Vapor Density (Air=1):	N/A**	Evaporation Rate:	N/A**
Water Solubility:	Negligible	Solubility in Other Solvents:	NAIF*
Appearance:	Solid wheel shape with black, dark brown or reddish color.		
Odor:	May give off slight odor during storage and/or use.		

**SECTION IV: SPECIAL PRECAUTIONS**

Special precautions to be taken during storage and handling:  
 Other Precautions

None  
 NAIF\*

**SECTION V: CORROSIVITY AND REACTIVITY DATA**

Stability: Stable  
 Polymerization: Will not occur  
 Decomposition Products: In use, the grinding wheel will generate dust and odors. In most cases, the material removed from the work piece will be significantly greater than that generated from the grinding wheel. Coolants, if used, may produce other decomposition products.

## **SECTION VI: FIRE AND EXPLOSION HAZARD DATA**

Flash Point:	N/A**, NAIF*	Method Used: N/A**
Flammable Limits:	LEL: NA**	UEL: NA**
Extinguishing Media:	Water	
Special Fire Fighting Procedures:	None	
Explosion Potential:	NAIF*	

## **SECTION VII: HEALTH, FIRST AID AND MEDICAL DATA**

<b><u>Primary Routes Of Entry</u></b>	<b><u>Acute and Chronic Health Effects and Effects of Overexposure</u></b>	<b><u>First Aid and Medical Information</u></b>
Inhalation (during grinding)	Acute: Coughing, shortness of breath Chronic: May affect breathing capacity May affect pre-existing respiratory condition(s)	Remove to fresh air Artificial respiration as needed Obtain medical assistance
Ingestion (during grinding)	No known adverse effects, but ingestion not recommended	Obtain medical assistance
Skin, Contact & Absorption (during grinding)	Some may experience skin irritation from dust	Wash affected areas with soap and water. Obtain medical assistance
Eye (during grinding)	Dust may irritate eyes	Wash with large quantities of Water. Obtain medical assistance.
Other Potential Risks (during grinding)	Grinding may create elevated sound levels which may affect hearing and pre-existing hearing condition(s).	Obtain medical assistance

## **SECTION VIII: STORAGE, HANDLING AND USE PROCEDURES**

Normal Storage and Handling:	Handle abrasive cutting off wheels and grinding wheels carefully to prevent damage from shock, heat, etc. Store in dry protected area free from humidity, freezing temperatures or extreme temperature changes. Consult ANSI B.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels.
Normal Use:	Use with adequate ventilation. See OSHA 29CFR 1910.94 (Ventilation) and 29CFR 1910.1000 (Air Contaminants). Use all abrasive cutting off wheels and grinding wheels in accordance with all applicable federal and state safety codes and as directed in ANSI B7.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels
Steps to be Taken in Case Of Leaks and Spills:	Normal cleanup procedures
Waste Disposal Methods:	Standard landfill methods in compliance with all applicable federal, state and local laws, products with listed fluorides may have slightly soluble fluoride in the swarf.

## **SECTION IX: PERSONAL PROTECTION INFORMATION**

Respiratory Protection: As required, for approved dust respirators see OSHA 29CFR 1910.134  
Ventilation: Local: Recommended  
Mechanical: Recommended  
Other: NAIF\*

Protective Gloves: Recommended, as desired by user  
Eye Protection: Recommended, see OSHA 1910.29CFR 1910.133 (Eye protection)  
Other Equipment: As required hearing protection, see OSHA 29CFR 1910.95 (Hearing protection)

Measures to be taken during repair and maintenance of equipment that has been in contact with material from grinding wheel: See Sections VIII and IX

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Prepared: 11 October 1993 (Rev'd 3 April 2000)  
NAIF\*: No applicable information found  
NA\*\*: No applicable information found