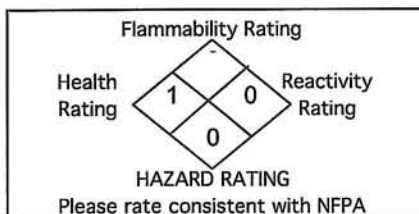


# MERIT

we know abrasives

## MATERIAL SAFETY DATA SHEET



SECTION I - NAME AND PRODUCT	
MANUFACTURER'S Merit Abrasive Products, Inc.	CONTACT TECHNICAL DEPARTMENT
ADDRESS (CITY, STATE, AND ZIP) 2770 W. Washington St. Stephenville, TX 76401-3798	EMERGENCY TELEPHONE (800) 231- 4154
TRADE NAME, COMMON NAME, OR SPECIFICATION <b>Mini &amp; Micro-mini Grind-O-Flex (Flap Wheel), A/O (resin or glue bond)</b>	APPROVED BY: Victor Rodriguez DATE: June 1, 2009
CHEMICAL FAMILY OR PRODUCT TYPE ANY Abrasive product, Mini & Micro-mini Grind-O-Flex (Flap Wheel), A/O (resin or glue bond)	

SECTION II - COMPOSITION							
CHEMICAL NAME	%	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCIN- OGEN (Y/N)
ALUMINUM OXIDE Al <sub>2</sub> O <sub>3</sub>	23-33	ALPHA ALUMINA (Abrasive Grain)	Y	1344-28-1	15mg/M3 (Total Dust)	5mg/M3 (Total Dust)	N
Duroplastic Phenol or Urea Resin binder, & Inert Backing	63-73	Inert or Nuisance Dust	Y	N/A	15mg/M3 (Total Dust)	5mg/M3 (Total Dust)	N
Cured Epoxy Adhesive	5-10	Glue	N	N/A	N/A	N/A	N

\*Maximums are required by OSHA 29 CFR 1910.1200 Hazard Communication Standard.

\*\*Please note that steel, aluminum, and/or die cast hardware may be incorporated in this product. These portions in no way represent a hazard when handled in accordance with the measures set below.

SECTION III - PHYSICAL AND CHEMICAL DATA			
BOILING POINT	N/A	MELTING POINT	N/A
VAPOR PRESSURE	N/A	PERCENT VOLATILE BY VOL.	N/A
EVAPORATION RATE	N/A	SOLUBILITY IN WATER	N/A
SOLUBILITY IN OTHER SOLVENTS N/A	APPEARANCE AND ODOR Wheel-shaped tool with abrasive flaps.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT	N/A	(METHOD USED)	N/A
EXTINGUISHING MEDIA	Water, Carbon Dioxide, Foam, Dry Chemical		
SPECIAL FIRE FIGHTING PROCEDURE	Fiber and resin binder will burn or decompose; use respiratory protection.		
EXPLOSION POTENTIAL	N/A		

SECTION V HEALTH, FIRST AID AND MEDICAL DATA		
PRIMARY ROUTES OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION
INHALATION Airborne dust during grinding	ACUTE- May cause coughing, shortness of breath CHRONIC- May effect breathing capacity	Remove to fresh air; obtain first-aid or medical assistance as needed
INGESTION Dust during grinding	Dust - no known adverse effects, ingestion not recommended	First aid or medical assistance as needed
SKIN During grinding	Not absorbed through skin - may cause abrasion in use	First aid or medical assistance as needed
EYE Airborne dust during grinding	Dust may irritate eyes	Wash with water; first aid or medical assistance as needed
OTHER HEALTH RISKS During grinding	On some materials, elevated sound levels may be created which may effect hearing	Obtain medical assistance as needed

**SECTION VI - CORROSIVITY AND REACTIVITY DATA**

STABILITY: UNSTABLE <input type="radio"/>	STABLE <input checked="" type="radio"/>	POLYMERIZATION: MAY OCCUR <input type="radio"/>	WILL NOT OCCUR <input checked="" type="radio"/>
INCOMPATIBILITY (MATERIALS TO AVOID): N/A			
DECOMPOSITION PRODUCTS: In use, dust and decomposing resin fumes are generated. In most cases, the material removed from work piece will be significantly greater than the coated abrasive product components.			
CONDITIONS TO BE AVOIDED: N/A			

**SECTION VII - STORAGE HANDLING AND USE PROCEDURES**

NORMAL STORAGE AND HANDLING: Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and OSHA 29 CFR 1910.1000 (air contaminants)
NORMAL USE: Handle with adequate ventilation; See OSHA 29 CFR 1910.94 (ventilation), OSHA 29 CFR 1910.1000 (air contaminants), OSHA CFR 1910.213 (P) Sanding Machines & OSHA CFR 1910.243
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Normal clean-up procedures.
TRANSPORTATION: There are no chemicals included in final product that appear as a "hazardous material" as indicated in the Department of Transportation's document 49 CFR doc 172.101 App. A.
WASTE DISPOSAL METHOD: Standard landfill methods consistent with applicable Federal, State, and local laws.

**SECTION VIII - PERSONAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (SPECIFY TYPE)	As needed, approved dust respirator OSHA 24 CFR 1910.134
VENTILATION	LOCAL Recommended
X	MECHANICAL (GENERAL) Recommended
	OTHER NAIF
PROTECTIVE GLOVES	Recommended when in use.
EYE PROTECTION	Recommended OSHA 29 CFR 1910.133 (Face and Eye Protection)
OTHER EQUIPMENT	As needed, hearing protection OSHA 29 CFR 1910.215 (Hearing Protection)
See Sections VI, VII, and VIII	
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT	

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Slight formaldehyde or phenolic resin odor from binding system may be released during storage.
OTHER PRECAUTIONS N/A

N/A = NOT APPLICABLE    NAIF= NO APPLICABLE INFORMATION FOUND

**FOR COMPANY USE**

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof, however, Merit Abrasive Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.