



Metabo

MATERIAL SAFETY DATA SHEET

Flammability Rating

Health Rating

Reactivity Rating

HAZARD RATING
Please rate consistent with NFPA Code

SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME: METABO CORPORATION	CONTACT: RICHARD E. LAWSON
ADDRESS (STREET, CITY, STATE AND ZIP CODE): 1231 WILSON DRIVE, WEST CHESTER, PA 19380	EMERGENCY TELEPHONE #: (800) 638-2264
TRADE NAME, COMMON NAME OR SPECIFICATION: ORGANIC BONDED GRINDING WHEELS	APPROVED BY: <i>[Signature]</i>
CHEMICAL FAMILY OR PRODUCT TYPE: ANY GRADE	DATE: 11/17/93

SECTION II COMPOSITION PER 29CFR 1910.1200 (G) (4)

CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Alpha-Alumina	90	Aluminum Oxide	Y	1344-28-1	10mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Silicon Carbide	90	Silicon Carbide	Y	409-21-2	10mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Zirconia Alumina	90	Zirconia Alumina	Y	70692-95-4	5mg/m ³ (as Zirconium)	5mg/m ³ (as Zirconium)	N
The grinding wheel may be comprised of 1 or more of the above abrasives. The chemicals listed below may be a part of the bond system.							
Fluorides (as F)	3	Cryolite	Y	15096-52-3	2.5mg/m ³	2.5mg/m ³	N
Pyrite FeS ₂	2	Pyrite	Y	1309-36-0	**NAIF	2.0mg/m ³	N
Glass, Fibrous or Dust	10	Fiberglass	Y	65997-17-3	15mg/m ³ - Total Dust	10mg/m ³ - Total Dust	N

SECTION III PHYSICAL AND CHEMICAL DATA

BOILING POINT **NAIF	MELTING POINT **NAIF	SPECIFIC GRAVITY 2-4
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF
SOLUBILITY IN OTHER SOLVENT **NAIF	APPEARANCE AND ODOR SOLID PRODUCT: MAY GIVE OFF ODOR IN USE.	

SECTION IV SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - NONE
OTHER PRECAUTIONS: **NAIF

SECTION V CORROSIVITY AND REACTIVITY DATA

STABILITY: <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLMERIZATION: <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR
INCOMPATIBILITY (MATERIALS TO AVOID). **NAIF	
DECOMPOSITION In use, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.	
CONDITIONS TO BE AVOIDED. **NAIF	

* MATERIALS ARE REGULATED BY OSHA 29 CFR 1910.1200, HAZARD COMMUNICATION STANDARD
NAIF = NO APPLICABLE INFORMATION FOUND *N/A = NOT APPLICABLE

SECTION VI HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION
INHALATION (During Grinding)	ACUTE: POSSIBLE COUGH CHRONIC: MAY AFFECT BREATHING CAPACITY.	REMOVE TO FRESH AIR. ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN MEDICAL ASSISTANCE, IF NEEDED
INGESTION (During Grinding)	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	OBTAIN MEDICAL ASSISTANCE, IF NEEDED
SKIN (During Grinding)	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	WASH AFFECTED AREAS WITH SOAP AND WATER OBTAIN MEDICAL ASSISTANCE, IF NEEDED.
EYE (During Grinding)	DUST MAY IRRITATE EYES.	WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, IF NEEDED.
OTHER POTENTIAL HEALTH RISKS (During Grinding)	GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING AND DUST WHICH MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS.	OBTAIN MEDICAL ASSISTANCE, IF NEEDED; REMOVE TO FRESH AIR.

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING
SEE ANSI STANDARD B7.1.

NORMAL USE
HANDLING WITH ADEQUATE VENTILATION. SEE OSHA 29CFR 1910.94 (VENTILATION) and 29CFR1910.1000 (AIR CONTAMINANTS)

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS.
NORMAL CLEANUP PROCEDURES. EVALUATE ALL PRODUCT IN ACCORDANCE WITH ANSI B7.1.

WASTE DISPOSAL METHOD
STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.
PRODUCTS CONTAINING FLOURIDES MAY LEACH A VERY SLIGHT AMOUNT IN LANDFILLS.

SECTION VIII PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE) AS NEEDED. FOR APPROVED DUST RESPIRATORS SEE OSHA 29CFR 1910.134

VENTILATION	LOCAL	RECOMMENDED
	MECHANICAL (GENERAL)	RECOMMENDED
	OTHER	**NAIF

PROTECTIVE GLOVES RECOMMENDED

EYE PROTECTION RECOMMENDED

OTHER EQUIPMENT AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95 (HEARING PROTECTION)

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL.

SEE SECTION VII & VIII

SECTION IX FIRE AND EXPLOSION HAZARD DATA

FLASH POINT **NAIF	METHOD USED **N/A	FLAMMABLE LIMITS	LEL N/A	UEL ***N/A
EXTINGUISHING MEDIA	USE WATER			
SPECIAL FIRE FIGHTING PROCEDURES	NONE			
EXPLOSION POTENTIAL	**NAIF			

FOR COMPANY USE

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



Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard 29 CFR 1910.1200.
 This standard must be consulted for specific requirements

IDENTITY (As used on label and list)

Abrasive Wheels

49-92-4300, 49-92-4310, 49-92-4370, 49-92-4380, 49-92-5000, 49-92-5005, 49-92-5010, 49-92-5015, 49-92-5410, 49-93-5140, 49-93-5220

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Milwaukee Electric Tool Corporation	Emergency Telephone Number 1-800-424-9300
Address (Number, Street) 13135 West Lisbon Road	Contact Telephone Number for Technical Information 262-781-3600 or 1-800-729-3878 (1-800-SAWDUST)
(City, State, and Zip Code) Brookfield, Wisconsin 53005	Date Prepared September, 2004

Section II - Hazardous Ingredients/Identity Information

Hazardous Components [Specific Chemical Identity, Common name (s)]

Ingredient	% by Weight	OSHA Reg. Y/N	CAS #	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
ABRASIVE:							
Silica Carbide	40-85	Y	409-21-2	15mg/m ³	10 mg/m ³		N
Cryolite-Sodium Aluminum Fluoride	1-15	Y	15096-52-3	2.5mg/m ³	2.5mg/m ³		N
Iron Pyrites- Iron Disulfide	0-15	Y	1309-63-0	NAIF	NAIF		N
Zirconia - Zirconium Dioxide	10-50	Y	7440-67-7	5 mg/m ³	5 mg/m ³		N
BINDER:							
Resin - Phenol-Formaldehyde (PNOR)	10-20	Y	9003-35-4	15 mg/m ³	10 mg/m ³		N
Carbon Black-Carbon	0-5	Y	1333-86-4	3.5mg/m ³	3.5mg/m ³		N
Lime, Calcium Oxide	0-5	Y	1305-78-8	5 mg/m ³	2 mg/m ³		N
Iron Oxide	0-5	Y	1309-37-1	10 mg/m ³	5 mg/m ³		N
Titanium Dioxide	0-5	Y	13463-67-7	15 mg/m ³	10 mg/m ³		N
Wax - Parafin Wax	10	Y	8002-74-2	2 mg/m ³	2 mg/m ³		N
REINFORCING:							
Fiberglass Mesh, Amorphous Silica	>15	Y	65997-17-3	15 mg/m ³	10 mg/m ³		N

DOT Hazard Classification: Non-Hazardous

SARA Title III Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

HMIS[®] Rating Numbers	Health	Flammability	Reactivity	Personal Protection	
	1	0	0	X	
Hazard Ratings:	0 = Minimum hazard	1 = Slight hazard	2 = Moderate hazard	3 = Serious hazard	4 = Severe hazard
	A = Goggles	B = Goggles + Gloves	C = Face Shield, Gloves + Apron	X = Special, See sections VII & VIII of this sheet	

Section III - Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H ₂ O=1) N/A
Vapor Pressure (mm/Hg.) N/A	Melting Point N/A
Vapor Density (Air=1) N/A	Evaporation Rate N/A
Solubility in Water N/A	
Appearance and Odor Solid, various colors, may have slight phenolic odor.	

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
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Extinguishing Media N/A
Special Fire Fighting Procedures None
Unusual Fire and Explosion Hazards N/A

Section V - Reactivity Data

Stability	Unstable		Conditions to avoid: N/A
	Stable	X	
Incompatibility (Material to avoid): Strong Acids			
Hazardous Decomposition or Byproducts None			
Hazardous	May Occur		Conditions to avoid: This product will not decompose.
Polymerization	Stable	X	

Section VI - Health Hazard Data

Route(s) of Entry: During normal use	Inhalation? Nuisance dust	Skin? Abrasion irritation	Ingestion? N/A
Health Hazards (Acute and Chronic) EYES: May cause irritation. SKIN: May cause irritation. INHALATION: May cause respiratory problems, mucous membrane irritation or aggravate existing problems. INGESTION: Not anticipated. If occurs, no adverse affects known.			
Signs and Symptoms of Exposure: Coughing, shortness of breath.			
Medical Conditions Generally Aggravated by Exposure: N/A			
Emergency and First Aid Procedures EYES: Wash with large amount of water. SKIN: Wash with soap and water. INGESTION: Seek medical help. INHALATION: Remove to fresh air. Seek medical help.			

WARNING:

- Grinding and cutting generates dust.
- Most of the dusts generated when grinding or cutting are from material being ground or cut.
- Excessive dust inhalation may effect the breathing function, may cause skin, lung or eye irritation.
- Fiberglass content is a possible carcinogen when dust is inhaled.
- See Federal Hazard Communication Standard 29CFR 1910.1200.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released if Spilled Use normal clean up procedures.
Waste Disposal Method Landfill in accordance with local, state, and Federal regulations.
Precautions to Be Taken in Handling and Storing Normal handling and storage methods using caution not to drop or crush.
Other Precautions Do not use at speeds greater than the not-to-be-exceed speed printed in the hub assembly.

Section VIII - Control Measures

Respiratory Protection (Specify Type) OSHA or NIOSH approved respirator may be required.			
Ventilation	Local Exhaust	Special	
	Recommended	N/A	
	Mechanical	Other	
	Useful	N/A	
Protective Gloves May be useful.	Eye Protection Recommended.		
Other Protective Clothing or Equipment: Not required.			
Work/Hygienic Practices Keep work area clean.			

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IDENTITY (As used on label and list)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Cut-off Wheels
Depressed Center Grinding Wheels
 Aluminum Oxide – Metal/Steel
 Steel Carbide – Masonry/Concrete
 Zirconium – Metal

49-92-3120, 49-92-3180, 49-92-3240, 49-92-3300, 49-93-3301,
 49-93-3311, 49-93-3321, 49-93-3331, 49-93-3341, 49-93-3351,
 49-93-3361, 49-93-3371, 49-93-3450, 49-93-3455, 49-93-3456,
 49-93-3460, 49-93-4301, 49-93-4302, 49-93-4303, 49-93-4304,
 49-93-4311, 49-93-5016, 49-93-6220, 49-93-6230, 49-93-6235,
 49-94-3300, 49-94-3310, 49-94-3320, 49-94-3330, 49-94-3340,
 49-94-3350, 49-94-3360, 49-94-3370, 49-94-6330, 49-94-6340,
 49-94-6335, 49-94-6345, 49-94-6360, 49-94-6300, 49-94-6305

Section I

Manufacturer's Name Milwaukee Electric Tool Corporation	Emergency Telephone Number 1-800-424-9300
Address (Number, Street) 13135 West Lisbon Road (City, State, and Zip Code) Brookfield, Wisconsin 53005	Contact Telephone Number for Technical Information 262-781-3600 or 1-800-729-3878 (1-800-SAWDUST) Date Prepared May 2004

Section II - Hazardous Ingredients/Identity Information

Hazardous Components [Specific Chemical Identity, Common name (s)]

Ingredient	% by Weight	OSHA Reg. Y/N	CAS #	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
Aluminum oxide	60-80	N	1344-28-1	15mg/m ³	10mg/m ³		N
Silicon carbide	60-80	N	409-21-2	15mg/m ³	10mg/m ³		N
Zirconium oxide	6-12	N	1314-23-4	5mg/m ³	5mg/m ³		N
Barium compound	3-8	Y	N 040	0.5mg/m ³	0.5mg/m ³		N
Zinc compound	1-5	Y	N 982	0.5mg/m ³	0.5mg/m ³		N
Iron sulfide	6-12	N	1217-37-9	15mg/m ³	10mg/m ³		N
Cryolite	6-12	N	15096-52-3	2.5mg/m ³	2.5mg/m ³		N
Phenolic resin	10-20	N	9003354	N/A	N/A		N
Carbon black	0/0.2	N	1333-86-4	3.5mg/m ³	3.5mg/m ³		N
Lime	0-0.1	N	1305-62-0	5mg/m ³	5mg/m ³		N
Fiber glass	3-5	N	N/A	15mg/m ³	10mg/m ³		N

DOT Hazard Classification: Non-Hazardous

SARA Title III Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

HMIS [®] Rating Numbers	Health	Flammability	Reactivity	Personal Protection
	1	0	0	A
Hazard Ratings:	0 = Minimum hazard	1 = Slight hazard	2 = Moderate hazard	3 = Serious hazard
	A = Goggles	B = Goggles + Gloves	C = Face Shield, Gloves + Apron	4 = Severe hazard
				X = Special, See sections VII & VIII of this sheet

Section III - Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H ₂ O=1) N/A
Vapor Pressure (mm/Hg.) N/A	Melting Point N/A
Vapor Density (Air=1) N/A	Evaporation Rate N/A
Solubility in Water Slight	Appearance and Odor Solid, dark colored. May give off some odor in use.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water or CO ₂			
Special Fire Fighting Procedures None			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data

Stability	Unstable		Conditions to avoid: Acids, solvents and extreme heat.
	Stable	X	
Incompatibility (Material to avoid): N/A			
Hazardous Decomposition or Byproducts Dust and organic fumes generated in use. Do not exceed TLV's.			
Hazardous Polymerization	May Occur Stable		Conditions to avoid: N/A
		X	

Section VI - Health Hazard Data

Route(s) of Entry: During normal use	Inhalation? N/A	Skin? N/A	Ingestion? N/A
Health Hazards (Acute and Chronic) N/A			
Signs and Symptoms of Exposure: Inhalation can cause coughing or shortness in breath.			
Medical Conditions Generally Aggravated by Exposure: N/A			
Emergency and First Aid Procedures EYE: Flush with a large amount of water. SKIN: Wash with soap and water. INHALATION: Remove to fresh air. NOISE: See OSHA 29 CFR 1910.95.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released if Spilled Normal clean-up procedures.
Waste Disposal Method Dispose of in a sanitary landfill in accordance with local, state, and Federal regulations.
Precautions to Be Taken in Handling and Storing Avoid damage. Do not drop. Store in a safe, dry location. Always handle in accordance with ANSI B7.1.
Other Precautions Always use in accordance with ANSI Z43.1 and OSHA 29 CFR 1910.215. Do not use dropped or damaged wheels. Do not use without machine guard in place. Do not exceed maximum RPM on wheel.

Section VIII - Control Measures

Respiratory Protection (Specify Type) MSHA or NIOSH approved respirator if TLVS exceeded. See OSHA 29 CFR 1910.134.		
Ventilation	Local Exhaust Recommended. See ANSI Z43.1.	Special See OSHA CFR 1910.94.
	Mechanical Recommended. See ANSI Z43.1.	Other See OSHA CFR 1910.94.
Protective Gloves Not required. Use if desired.	Eye Protection Required. See OSHA 29 CFR 1910.133.	
Other Protective Clothing or Equipment: Apron and/or face shield if desired. Hearing. See OSHA 29 CFR 1910.95.		
Work/Hygienic Practices N/A		

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 May be used to comply with
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IDENTITY (As used on label and list)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Grinding Wheels

49-94-1220, 49-94-1405, 49-94-1410, 49-94-1415, 49-94-4500,
 49-94-4505, 49-94-5000, 49-94-5005, 49-94-6300, 49-94-6305

Section I

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(City, State, and Zip Code) Brookfield, Wisconsin 53005	Date Prepared September 2004

Section II - Hazardous Ingredients/Identity Information

Hazardous Components [Specific Chemical Identity, Common name (s)]

Ingredient	% by Weight	OSHA Reg. Y/N	CAS #	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
Aluminum Oxide, Non-Fibrous	40-90%	N	1344-28-1	15mg/m3	10mg/m3	N	N
Calcium Oxide	1-5%	N	1305-78-8	5mg/m3	2mg/m3	N	N
Carbon Black	0.1-1%	N	1333-86-4	3.5mg/m3	3.5mg/m3	N	N
Cured Phenol Formaldehyde Resin	3-12%	N	9003-35-4	0ppm	0ppm	N	N
Fiberglass	0.003-10%	N	65997-17-3	1fbr/cc	0fbr/cc	N	N
Inorganic Fluorides **	2-10%	N	NA	2.5mg/m3	2.5mg/m3	N	N
Manganese Compounds (*) **	1-5%	N	NA	NA	NA	N	N
@Crystalline Silica, Quartz	0.001-1%	N	14808-60-7	.1mg/m3	.1mg/m3	Y	N
Silicon Carbide	80-90%	N	409-21-2	10mg/m3	10mg/m3	N	N
Sodium Silicate	5-15%	N	1344-09-8	15mg/m3	0mg/m3	N	N
Sulfates & Sulfides **	1-10%	N	NA	0mg/m3	0mg/m3	N	N
Zinc Compound (*) **	1-5%	N	NA	NA	NA	N	N
Zirconium Oxide	30-50%	N	1314-23-4	5mg/m3	5mg/m3	N	N

(*) This substance is regulated under Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Canadian National Pollution Reduction Initiative (NPRI). The OSHA exposure limit represented above is for respirable dust and assumed to be worst case exposure to 100% crystalline silica; 10mg/m3/(%silica+2).

** Substance is a compound and/or mixture.

@ Actual grinding tests with wheels known to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline silica. The grinding wheel may be comprised of only some of the above.

DOT Hazard Classification: Non-hazardous

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HMIS [®] Rating Numbers	Health	Flammability	Reactivity	Personal Protection	
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	A = Goggles	B = Goggles + Gloves	C = Face Shield, Gloves + Apron	X = Special, See sections VII & VIII of this sheet	

Section III - Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H ₂ O=1) N/A
Vapor Pressure (mm/Hg.) N/A	Melting Point N/A
Vapor Density (Air=1) N/A	Evaporation Rate N/A
Solubility in Water Non-soluble	

Appearance and Odor
 Solid article. Odorless.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards None			

Section V - Reactivity Data

Stability	Unstable		Conditions to avoid: N/A
	Stable	X	

Incompatibility (*Material to avoid*):
Avoid acids of all types with a pH < 4.0

Hazardous Decomposition or Byproducts
In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products. For products containing phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde. For products containing inorganic fluorides, thermal decomposition may produce trace amounts of fluorides.

Hazardous	May Occur		Conditions to avoid: N/A
Polymerization	Stable	X	

Section VI - Health Hazard Data

Route(s) of Entry: During normal use	Inhalation? Affects breathing, irritation	Skin? Irritation	Ingestion? None
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Health Hazards (*Acute and Chronic*)
ACUTE: Dust may be slightly irritating to eyes and respiratory tract at high concentrations. **CHRONIC:** May affect breathing capacity. For products containing phenol/formaldehyde resin dust generated from intended use may contain trace amounts of phenol and formaldehyde which may cause skin sensitization and airway obstruction. For products containing inorganic fluorides, excessive exposure to inorganic fluorides has been shown to increase bone density.

Signs and Symptoms of Exposure:
INHALATION: May cause airway obstruction, difficulty breathing. **EYES:** May irritate eyes. **SKIN:** May experience skin irritation from dust. **INGESTION:** No known adverse affects, but ingestion is not recommended.

Medical Conditions Generally Aggravated by Exposure:
N/A

Emergency and First Aid Procedures
INHALATION: Remove to fresh air. If breathing stops, get medical attention immediately and give artificial respiration. **EYES:** Wash with large amounts of water and obtain medical attention if needed. **SKIN:** Wash affected areas with soap and water and obtain medical attention if needed. **INGESTION:** Call poison control center, hospital emergency room, or physician immediately.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released if Spilled
Follow normal clean up procedures.

Waste Disposal Method
Use standard landfill methods consistent with applicable Federal, State, Provincial, and local laws. Products with listed fluorides may have slightly soluble fluoride swarf.

Precautions to Be Taken in Handling and Storing
Always handle and store wheels in a careful manner

Other Precautions
ALWAYS visually inspect wheels before mounting, check machine speed against the established maximum safe operating speed marked on the wheel, check mounting flanges for equal and correct diameter, use mounting blotters, be sure work rest is properly adjusted, use a safety guard covering at least one-half of the grinding wheel, allow newly mounted wheels to run at operating speed with guard in place for at least one minute before grinding, and turn off coolant before stopping wheel to avoid an out-of-balance wheel.

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

Respirators required when airborne contaminant levels exceed the TLV's.

Ventilation	Local Exhaust Use adequate ventilation.	Special N/A
	Mechanical N/A	Other See OSHA 29 CFR 1910.94 (Ventilation) and 29 CFR 1910.1000 (Air Contaminants)
Protective Gloves N/A		Eye Protection Always wear safety glasses or some type of eye protection.

Other Protective Clothing or Equipment:

Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29 CFR 1910.134 and other applicable regulations).

Work/Hygienic Practices

N/A

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Legend:

Y - Yes

N - No

N/A - Not Applicable



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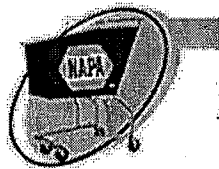
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NAPA Auto Parts
2999 Circle 75 Pkwy
Atlanta, GA 30339



Material Safety Data Sheet (MSDS)

NAPA Cutting & Grinding Oil (Plastic, 1 Pint)

MATERIAL SAFETY DATA SHEET

Effective Date: none

Revision Date: none

NAPA Cutting & Grinding Oil (Plastic, 1 Pint)

Code: AGS

Page: 1

Section 1 - Product and Company Identification

PRODUCT NAME: NAPA Cutting & Grinding Oil (Plastic, 1 Pint)

MANUFACTURER'S NAME:

EMERGENCY TELEPHONE NUMBER

AGS Company
2651 Hoyt St.
Muskegon Hts. , MI 49444
(616) 733-2101

MISCELLANEOUS INFORMATION

Section 2 - Hazardous Ingredients

HAZARDOUS INGREDIENT	CAS NO.	WGT. %	TLV
Mineral Oil *	Not Assigned	80-90	5 cu. m.

NOTE: * Mineral oil used is severely hydrotreated or solvent extracted oil which does not require labeling as a carcinogen.

Section 3 - Hazards Identification

EYES: May cause irritation.

SKIN: May cause irritation.

INGESTION: Not known; however, if aspirated into lungs chemical pneumonitis may develop.

INHALATION: May cause irritation.

OTHER EFFECTS: None known.

Section 4 - First Aid Measures

EYES: Flush with water for at least 15 minutes. Get medical attention if irritation occurs.

SKIN: Wash with soap and water. If irritation occurs get medical attention.

INGESTION: Do not induce vomiting. Get medical attention.

INHALATION: Remove to fresh air. Administer oxygen or artificial respiration as needed. Get medical attention.

=====

MATERIAL SAFETY DATA SHEET

Effective Date: none

Revision Date: none

NAPA Cutting & Grinding Oil (Plastic, 1 Pint)

Code: AGS

Page: 2

=====

Section 5 - Firefighting Measures

FLASH POINT : Not Determined
METHOD :
AUTO IGNITION TEMP: Not Determined

FLAMMABLE LIMITS:
LEL: Not Determined
UEL: Not Determined

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide. Foam and water fog may cause frothing.

SPECIAL PROCEDURES: Use protective gear, including self-contained breathing apparatus.

UNUSUAL HAZARDS: Mists or sprays may ignite.

=====

Section 6 - Environmental Release Measures

SPILL PROCEDURE: Contain spill and eliminate all ignition sources. Absorb on an inert material. Prevent entry into sewers and waterways.

=====

Section 7 - Handling and Storage

CONDITIONS TO AVOID: Keep away from ignition sources.

=====

Section 8 - Exposure Controls/Personal Protection

VENTILATION REQUIREMENTS: Suitable to maintain a mist concentration below TLV.

EYES : Yes
GLOVES : Yes
CLOTHING : No
RESPIRATORY: No

OTHER: Protective clothing, eye wash and safety shower in area.

=====

MATERIAL SAFETY DATA SHEET

Effective Date: none

Revision Date: none

NAPA Cutting & Grinding Oil (Plastic, 1 Pint)

Code: AGS

Page: 3

=====

Section 9 - Physical and Chemical Properties

pH SUPPLIED : Not Determined
pH DILUTED : Not Determined
WATER SOLUBILITY: Emulsifiable
SPECIFIC GRAVITY: (Water=1) 0.94
MELTING POINT : Not Applicable
BOILING POINT : 500F
% VOLATILES : Not Determined
VAPOR PRESSURE : Not Determined
VAPOR DENSITY : Not Determined
EVAPORATION RATE: Not Determined
APPEARANCE : Clear amber liquid, characteristic lube oil odor.

=====

Section 10 - Stability and Reactivity

UNSTABLE AND/OR AUTO REACTIVE: Stable

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and sulfur.

=====
Section 11 - Toxicological Information

Not available.

=====
Section 12 - Ecological Information

Not available.

=====
Section 13 - Disposal Considerations

DISPOSAL METHOD: Removal by an approved, licensed waste hauler.

EPA WASTE I.D. NO.: Not Reg.

=====
Section 14 - Transport Information

Not available.

=====
Section 15 - Regulatory Information

Not available.

=====
MATERIAL SAFETY DATA SHEET

Effective Date: none

Revision Date: none

NAPA Cutting & Grinding Oil (Plastic, 1 Pint)

Code: AGS

Page: 4

=====
Section 16 - Other Information

TRADE NAME : NAPA Cutting & Grinding Oil

COMMON NAME : Cutting & Grinding Oil

CONTAINER SIZE: Plastic, 5 Gallons

NFPA: HEALTH : 0

FLAMMABILITY : 1

REACTIVITY : 0

SPECIFIC HAZARD: N/A

HMIS: HEALTH : 0

FLAMMABILITY : 1

REACTIVITY : 0

PROTECTIVE EQUIPMENT: A

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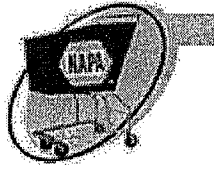
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Grinding Wheel
=====
MATERIAL SAFETY DATA SHEET
Effective Date: 12-1-89 Revision Date: none
Grinding Wheel
Code: SHK Page: 1
=====

Section 1 - Product and Company Identification
=====

PRODUCT NAME: Grinding Wheel

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER
Shark Industries (800)537-4275
2226 West Wabanis
Chicago, IL 60647 MISCELLANEOUS INFORMATION
(312)489-5200

=====

Section 2 - Hazardous Ingredients
=====

ACGIH OSHA OTHER
INGREDIENTS CAS # TLV PEL LIMITS %

Fused Aluminum Oxide/
Aluminum Oxide 1344-28-1 10mg/M3 15mg/M3 77.9

Phenolic Resin 407-98-0 TOTAL DUST 14.3

Calcium Metasilicate 13983-17-0 7.8

=====

Section 3 - Hazards Identification
Not Available

=====

Section 4 - First Aid Measures
Not Available

=====

Section 5 - Firefighting Measures
NFPA 30B Rating: None

FLAMMABLE PROPERTIES:
FLASH POINT: None Method:

FLAMMABLE LIMITS:
Lower flammable limit: None
Upper flammable limit: None

EXTINGUISHING MEDIA: Non-Flammable

SPECIAL FIREFIGHTING PROCEDURES: Non-Flammable.



UNUSUAL FIRE AND EXPLOSION HAZARDS: Non-Flammable

=====

MATERIAL SAFETY DATA SHEET

Effective Date: 12-1-89 Revision Date: none

Grinding Wheel

Code: SHK Page: 2

=====

Section 6 - Environmental Release Measures

Not Available

=====

Section 7 - Handling and Storage

Not Available

=====

Section 8 - Exposure Controls/Personal Protection

Not Available

=====

Section 9 - Physical and Chemical Properties

BOILING POINT(Range): None

VAPOR PRESSURE PSIG AT 70 deg F: None

VAPOR DENSITY (AIR-1): None

SOLUBILITY IN WATER: None

SPECIFIC GRAVITY (H2O=1): A/O 1.6 - 2.4

MELTING POINT: A/O 2050 deg

PH None

LIQUID None

EVAPORATION RATE (Butyl Acetate=1):None

APPEARANCE: A/O, White, Blue, Pink or Red

ODOR: No odor

=====

Section 10 - Stability and Reactivity

Not Available

=====

Section 11 - Toxicological Information

Not Available

=====

Section 12 - Ecological Information

Not Available

=====

Section 13 - Disposal Considerations

Not Available

=====

Section 14 - Transport Information

Not Regulated

=====

MATERIAL SAFETY DATA SHEET

Effective Date: 12-1-89 Revision Date: none

Grinding Wheel

Code: SHK Page: 3

=====

Section 15 - Regulatory Information

Not Available

=====

Section 16 - Other Information

Not Available

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NAPA Analytics





North American Refractories Co.

A Member of The Didier Group

06056 00

500 Halle Building
1228 Euclid Avenue
Cleveland, Ohio 44115-1809
216/621-5200

7019

NORTH AMERICAN REFRACTORIES PRODUCT SAFETY DATA SHEET

MANUFACTURER

MSDS # 3066-50

NORTH AMERICAN REFRACTORIES

Vendor:

Emergency Phone Number
East (814) 236-3890
West (415) 432-4741
Canada (416) 765-4404

MSDS prepared by:
NORTH AMERICAN REFRACTORIES
Technical Center (814) 234-7981

Date Issued: 02/02/92

Date Revised: 08/27/91

Product Type: Refractory Castable / Gun Material

Trade Name: DURAKAST 56ER

***** SECTION I - PRODUCT IDENTIFICATION *****

Chemical Name: Fireclay Castable
Chemical Family: Al₂O₃.SiO₂, CaO.Al₂O₃

***** SECTION II - CHEMICAL COMPOSITION *****

Hazardous Ingredients:	CAS Number:	PCT:
Crystalline Silica including:	N/A	less than 25%
Quartz	14808-60-7	
Cristobalite	14464-46-1	
Tridymite	15468-32-3	
Other Ingredients:	CAS Number:	PCT:
Alumina Silicate	1302-93-8	less than 75%
Hydrous Alumina Silicate	1302-87-0	less than 10%
Hydraulic Setting Cement	12042-68-1	less than 35%
Organic Fibers	9003-07-0	less than 1%
Amorphous Silica	7631-86-9	less than 10%

***** SECTION III - PHYSICAL DATA *****

Appearance and Odor: Tan, granular, dry mixture, odorless.



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***** SECTION IV - FIRE AND EXPLOSION HAZARD *****

Flammability: This product is non-flammable and will not support combustion.

***** SECTION V - HEALTH HAZARD *****

Threshold Limit Value:

For respirable dust containing crystalline silica:

OSHA :

- ACGIH: Quartz.....0.1mg/m3
- Cristobalite....0.05mg/m3
- Tridymite.....0.05mg/m3

Effects of Overexposure:

CEMENT:

Cement may cause irritation to skin and eyes. Low toxicity via inhalation route. Pulmonary fibrosis due to cement dust occurs rarely if at all. Cement may be an allergen in some people. Note: LD50 and LC50 is not available for "Cement"

CRYSTALLINE SILICA:

Chronic overexposure to dust containing respirator sized crystalline silica (quartz, cristobalite, and tridymite) can cause delayed lung injury (silicosis).

Points of attack: Respiratory system and lungs.

Route of entry: Inhalation.

Inhalation of dust containing crystalline silica may contribute to pre-existing pulmonary diseases such as asthma and lung disorders associated with the smoking of tobacco.

Some recent animal studies have caused the International Agency for Research on Cancer (IARC) to categorize crystalline silica as a 2A carcinogen. A 2A carcinogen is one which:

- (1) there is sufficient evidence for the carcinogenicity to experimental animals.
- (2) there is limited evidence of the carcinogenicity to humans.

Toxicity data:

- Quartz: LCLo: 300ug/m3 / 10Y-I inhalation human
- Cristobalite: TCLo: 16 mppcf/8H/17.9Y-I inhalation human
- Tridymite: TCLo: 16 mppcf/8H/17.9Y-I inhalation human

Note: LD50 and LC50 not available.

For more information on crystalline silica refer to:



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- (1) IARC Monograph, Volume 42
 - (2) NIOSH Document No. 75-120
- With the exception of:
Crystalline silica
No ingredient in this product is found on either the Federal OSHA, NTP, or IARC list of carcinogens.

Emergency and First Aid Data:

- Eyes: Flush with water and get medical help.
- Inhalation: Remove to fresh air.
- Eyes: Flush with water for 15 minutes and get medical help.

***** SECTION VI - REACTIVITY DATA *****

Stability and Reactivity: This product is stable and non-reactive.
Hazardous Decomposition: Crystalline silica levels in used refractories may be higher or lower than as-shipped depending on service conditions. Hygiene monitoring must be done to insure the proper employee protection during tearout.

***** SECTION VII - SPILL AND LEAK PROCEDURES *****

Steps to be Taken in Case of a Spill:
Avoid generating dust exposure during cleanup.
Waste Disposal Method: Dispose of material according to local, state or federal regulations and as final used condition of the product dictates.

***** SECTION VIII - INDUSTRIAL HYGIENE INFORMATION *****

Ventilation: Local exhaust recommended to maintain exposures below TLV.
Respiratory Protection: NIOSH approved dust type for exposures above TLV.
Protective Gloves: Impervious gloves recommended.
Eye Protection: Recommended.

***** SECTION IX - SPECIAL PRECAUTIONS *****

Special Precautions: Avoid dust generation.
Precautionary Labeling: Product contains crystalline silica and hydraulic setting cement.
WARNING: Prolonged inhalation of product dust may cause delayed lung injury (silicosis).
Contact may cause irritation to eyes and skin.

***** SECTION X - SPECIAL INFORMATION *****

WARNING: Steam spalling may occur from improper drying, curing, and firing (heat-up).
Steam spalling of thick refractory sections can be explosive in character. Potential for serious



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injury exists from failure to follow the recommended schedule. This schedule is available from North American Refractories Co. For more information, contact your sales representative or call North American Refractories Co. 216-621-5200.

MATERIAL SAFETY DATA SHEET**NORTON**

DATE PRINTED: JAN 25, 2007

MSDS NO. ALSICRESIN000

OUTBOUND

Al2O3/SiC Resin Grinding Wheel

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME

Al2O3/SiC Resin Grinding Wheel

TRADE NAME

Alundum/Crystalon

MANUFACTURER(4)

Saint-Gobain Abrasives, Inc.

One New Bond Street

Worcester, MA, 01606

(508) 795-5000

REVISION DATE

1/24/2007

MSDS PRINT FORMAT

NUSA

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Aluminum Oxide, Non-fibrous	40.000- 60.000	1344-28-1
Cured PhenolFormaldehyde Resin	3.000- 25.000	9003-35-4
Silicon Carbide	30.000- 45.000	409-21-2
OTHER		
Not Applicable		

SECTION 3. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS

Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

INHALATION CHRONIC EXPOSURE EFFECTS

Chronic: May affect breathing capacity.

For products containing phenol/formaldehyde resin, dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction.

For products containing inorganic fluorides:

Excessive exposure to inorganic fluorides have been shown to increase bone density.

EYE CONTACT ACUTE EXPOSURE EFFECTS

Dust may irritate eyes.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

Some may experience skin irritation from dust.

INGESTION ACUTE EXPOSURE EFFECTS

known adverse effects, but ingestion not recommended.

SECTION 4. FIRST AID MEASURES

INHALATION

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

SKIN CONTACT

Wash affected areas with soap and water. Obtain medical assistance.

EYE CONTACT

Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

INGESTION

Call poison control center, hospital emergency room or physician immediately.

SECTION 5. FIRE FIGHTING MEASURES**FIRE FIGHTING PROCEDURES**

Not Applicable

HAZARDOUS PRODUCTS/COMBUSTION

None.

HAZARD RATING SOURCE

NFPA

HEALTH

1

FLAMMABILITY

0

REACTIVITY

0

OTHER**SECTION 6. ACCIDENTAL RELEASE MEASURES****CLEAN-UP**

Follow normal clean up procedures.

SECTION 7. HANDLING AND STORAGE**HANDLING**

Always HANDLE AND STORE wheels in a CAREFUL manner.

Always VISUALLY INSPECT all 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 USE MOUNTING BLOTTERS.

Always be sure WORK REST is properly adjusted.

Always USE A SAFETY GUARD covering at least one-half of the grinding wheel.

Always allow NEWLY MOUNTED WHEELS to run at operating speed, with guard in place, for at least one minute before grinding.

Always TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance wheel

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**VENTILATION PROTECTION**

Recommend using local exhaust ventilation when general ventilation is not keeping the airborne concentration below the TLV.

RESPIRATORY PROTECTION

Respirators are required when airborne contaminant levels exceed the TLV(s).

EYE PROTECTION

Always WEAR SAFETY GLASSES or some type of eye protection when grinding.

OTHER PROTECTION

Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29 CFR 1910.134 and other applicable regulations).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE & ODOR**

Solid article. Odorless.

SECTION 10. STABILITY AND REACTIVITY**INCOMPATIBILITIES**

Avoid acids of all types with a pH < 4.0.

DECOMPOSITION

In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

For products containing Phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde.

For products containing inorganic fluorides, thermal decomposition may produce trace amounts of fluorides.

SECTION 11. TOXICOLOGICAL INFORMATION**CARCINOGENICITY**

Formaldehyde - EPA-B1, NTP-R, IARC-2A, OSHA-X
LD50/LC50

Values are not appropriate or available.

SECTION 12. ECOLOGICAL INFORMATION**CHEMICAL FATE**

Resin bonded materials demonstrate similar degradation rates as Phenolic plastics.

Vitrified products do not appreciably decay.

SECTION 13. DISPOSAL CONSIDERATIONS**WASTE DISPOSAL**

Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

Products with listed fluorides may have slightly soluble fluoride swarf.

RECYCLING PROGRAM - the Company has developed a grinding wheel recycling program. If you are interested in returning your stubs, information can be obtained by dialing Customer Service.

SECTION 14. TRANSPORT INFORMATION

HAZARD CLASS

1/A

SECTION 15. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	UNITS	OSHA	ACGIH	MOL
Aluminum Oxide, Non-fibrous	MG/M3	15.0000	10.0000	10.0000
Cured PhenolFormaldehyde Resin	PPM	0.0000	0.0000	0.0000
Silicon Carbide	MG/M3	10.0000	10.0000	10.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS

CA PROP 65

Not Applicable

TSCA

Section 8(b) - Inventory Status

All components of this product are registered under the regulations of the Toxic Substance Control Act.

DOMESTIC SUBSTANCE LIST

SECTION 16. OTHER INFORMATION

DISCLAIMER

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, the Company 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.

KEY TO ABBREVIATIONS:

EQ=Equal

AP=Approximately

=

LT=Less Than

TR=Trace

GT=Greater Than

ND=No Data available

