



Material Safety Data Sheet

I. Bonded Abrasives & Grinding Wheels

EMERGENCY TELEPHONE NUMBER:

1-845-887-4840

Composition as per 29CFR 1910.1200

Ingredients Listed May Be Contained in the Product

Chemical Name	Common Name	CAS Number	OSHA PEL Permissible Exposure Limit	ACGIH TLV Threshold Limit Value	NTP/IARC/OSHA Carcinogen Status
Aluminum Oxide	Aluminum Oxide	1344-28-1	15 mg/M3	10 mg/M3	Not Listed
Silicon Carbide	Silicon Carbide	409-21-2	15 mg/M3	10 mg/M3	Not Listed
Zirconium Oxide	Zirconium Oxide	1314-13-2	5 mg/M3	5 mg/M3	Not Listed
Phenol/Formaldehyde binder	Cured Phenolic Resin	67700-42-9	10 mg/M3	10 mg/M3	Not Listed
Pumice	Pumice	NAIF	NAIF	NAIF	Not Listed
Iron Oxide	Iron Oxide	1309-37-1	15 mg/M3	10 mg/M3	Not Listed
Calcium Carbonate	Limestone	1317-65-3	5 mg/M3	5 mg/M3	Not Listed
Kaolin	Clay	1332-58-7	5 mg/M3	5 mg/M3	Not Listed
Sulfur	Sulfur	7704-34-9	NAIF	NAIF	Not Listed
Hydrated Alumina	Hydrated Alumina	21645-51-2	10 mg/M3	10 mg/M3	Not Listed
Calcium Metasilicate	Calcium Metasilicate	13983-17-0	NAIF	NAIF	Not Listed
Magnesium Oxide	Magnesium Oxide	1309-48-4	15 mg/M3	10 mg/M3	Not Listed
Titanium Dioxide	Titania	13463-67-7	15 mg/M3	10 mg/M3	Listed

Synthetic elastomers which may be contained in the product are not defined by OSHA as hazardous materials.

II. Physical/Chemical Characteristics

Boiling Point	NAIF	Specific Gravity (h2) =1)	2-4
Vapor Pressure (mm Hg.)	NAIF	Melting Point	NAIF
Vapor Density (AIR = 1)	NAIF	Evaporation Rate (Butyl Acetate = 1)	NAIF
Solubility in Water	SLIGHT	Solubility in Alcohol	NAIF
Solubility in Other Solvent	NAIF	Appearance and Odor	Solid; may produce odor in use
Percentage Volatile by Volume	NAIF		

III. Fire and Explosion Hazard Data

Flash Point (Method Used)	NAIF	Flammable Limits	N/A	LEL	DEL
Extinguishing Media	Use Water				
Special Fire Fighting Procedures	None				
Usual Fire and Explosion Hazards	NAIF				

IV. HEALTH, FIRST AID & MEDICAL DATA

ROUTE OF ENTRY	ACUTE EFFECT	FIRST AID
Eyes	Dusts may irritate eyes.	Wash with large amounts of water. Obtain first aid and medical assistance if needed.
Inhalation (During Grinding)	Acute: Coughing and/or shortness of breath. Chronic: May affect breathing capacity.	Remove to fresh air. Artificial respiration as needed. Obtain medical assistance.
Ingestion (During Grinding)	No known adverse effect but ingestion should be avoided.	Obtain medical assistance.
Skin (During Grinding)	Dust may irritate some individuals.	Wash affected areas with soap and water. Obtain medical assistance.
Other Potential Health Risks	Grinding may create elevated sound levels which may affect hearing.	Obtain medical assistance.

V. REACTIVITY DATA

Stability: Stable.

Polymerization: Will not occur.

Decomposition Products: Dust is generated in use. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components.

Incompatibility (Materials To Avoid): NAIF

Conditions To Be Avoided: NAIF

VI. SPECIAL PRECAUTIONS

Precautions To Be Used In Handling:

Air Storage: None

Other Precautions: NAIF

VII. STORAGE, HANDLING & USE PROCEDURES

Normal Storage & Handling: See ANSI Standard B7.1.

Normal Use: Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and 29CFR1910.1000 (Air Contaminates)..

Steps To Be Taken In Case Of Leaks Or Spills: Normal cleanup procedures.

Waste Disposal Method: Standard landfill methods consistent with applicable state and local laws.

VIII. PERSONAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) as needed: For approved dust respirators see OSHA 29CFR1910-134.

Ventilation: Local Recommended.
Mechanical (general) recommended.
Other NAIF

Protective Gloves: As desired by user.

Eye Protection: Recommended. See OSHA 29CFR1910.133.

Other Equipment: As needed hearing protection. See OSHA 29CFR1010.215 (Hearing protection.)

Measures to be taken during Repair & Maintenance of Contaminated Equipment that has been in contact with this material: see Sections VII and VIII.

The information and recommendations set forth herein are taken from sources believed to be accurate as of this date hereof; however, no warranty is made with respect to the accuracy of the information or the suitability of the recommendations, and no liability is assumed to any user thereof.

NAIF = No Applicable Information Found
N/A = Not Applicable