

# FIBER BONDED GRINDING WHEELS

Western Abrasives, Inc.

1170 NE 63<sup>rd</sup> Avenue

Portland, Oregon 97213

SDS Revision Date: May 13, 2016

## SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION

PRODUCT NAME	Fiber Bonded Grinding Wheels
END USE	Grinding wheel
MANUFACTURER	Western Abrasives 1170 NE 63 <sup>rd</sup> Avenue Portland, Oregon 97213 Phone: (503) 234-0733 Fax: (503) 235-3851
EMERGENCY PHONE NUMBER	(503) 234-0733

### SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION	Acute Toxicity, Oral – 5 Acute Toxicity, Dermal – 5 Acute Toxicity, Inhalation – 5 Serious Eye Damage/Eye Irritation – 2B
SIGNAL WORD	WARNING
HAZARD STATEMENT	May be harmful if swallowed (H303) May be harmful in contact with skin (H313) May be harmful if inhaled (H333) Causes eye irritation (H320)
HAZARD PICTOGRAMS	None
PRECAUTIONARY STATEMENT(S)	P304 + P312 – IF ON SWALLOWED, ON SKIN OR INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  P337+P313 – If eye irritation persists, get medical attention from a physician.
HAZARDS NOT OTHERWISE CLASSIFIED	N/A

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

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SUBSTANCE / MIXTURE	Mixture	
OTHER MEANS OF IDENTIFICATION	N/A	
CAS # / IDENTIFIERS		
INGREDIENT NAME	% BY WEIGHT	CAS NUMBER
Aluminum Oxide	50 – 90	1344-28-1
Rubber	12 - 15	N/A
Phenolic resin	0.1 – 5	N/A
Furfural Alcohol	0.1 – 5	N/A
Carbon black	0.1 – 5	1333-86-4
Hydrated amorphous silica	0.1 – 5	7631-86-9
Magnesium Oxide	0.1 – 5	1309-48-4
Napthenic hydrocarbon	0.1 – 5	64742-52-2
Paraffin wax	0.1 – 5	64742-43-4
Cotton	0.1 – 5	9004-34-6

*Any concentrations shown in a range are to protect trade secret confidentiality or is due to batch variation. There are no additional ingredients present, which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.*

## SECTION 4 – FIRST AID MEASURES

### DESCRIPTION OF NECESSARY FIRST AID MEASURES

EYE CONTACT	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical attention.
INHALATION	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
SKIN CONTACT	Wash affected areas with soap and water. If irritation develops, get medical attention. Remove and launder contaminated clothing before reuse.
INGESTION	Never give fluids or induce vomiting if the victim is unconscious or have convulsions. Seek immediate medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED	
EYE CONTACT	May cause eye irritation.
INHALATION	May cause respiratory tract irritation.
SKIN CONTACT	May cause skin irritation.

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INGESTION	May cause gastrointestinal irritation.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDS, IF NECESSARY	
EYE CONTACT	N/A
INHALATION	N/A
SKIN CONTACT	N/A
INGESTION	N/A

## SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	Foam CO2, Dry Chemical, Water, Fog Foam
SUITABLE MEDIA	
EXTINGUISHING MEDIA:	N/A
UNSUITABLE MEDIA	
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	N/A
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS	N/A
SPECIAL EQUIPMENT FOR FIRE-FIGHTERS	As in any fire, wear pressure-demand self-contained breathing apparatus (SCBA) (MSHA/NIOSH approved or equivalent) and full protective gear.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES FOR NON-EMERGENCY PERSONNEL	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust/fumes/mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
FOR EMERGENCY PERSONNEL	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel.
ENVIRONMENTAL PRECAUTIONS	Avoid runoff into storm sewers and ditches that lead to waterways. Consult your state or local authorities for proper disposal in the event that more restrictive

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requirements apply.

## METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

### LARGE SPILLS

Discard any product, residue, disposal container or liner in full compliance with federal, state and local regulations.

### SMALL SPILLS

Same protocol as above.

## SECTION 7 – HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

#### PROTECTIVE MEASURES

Inspect for defects before use. Use in a well ventilated area. Keep out of reach of children. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the respective exposure limits. Use safety glasses and gloves to handle.

#### GENERAL HYGIENE

Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing dust/fumes/mist.

#### CONDITIONS FOR SAFE

Store away from heat and moisture.

#### STORAGE, INCLUDING

#### ANY INCOMPATIBILITIES

## SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE LIMITS

#### COMPOUND

#### CAS #

#### OSHA PEL 8-

#### ACGIH TLV

HR TWA

8-HR TWA

Aluminum Oxide

1344-28-1

5 mg/m<sup>3</sup>

1 mg/m<sup>3</sup>

Rubber

N/A

N/A

N/A

Furfural Alcohol

N/A

N/A

N/A

Carbon black

1333-86-4

3.5 mg/m<sup>3</sup>

3 mg/m<sup>3</sup>

Hydrated amorphous silica

7631-86-9

80 mg/m<sup>3</sup>

10 mg/m<sup>3</sup>

%SiO<sub>2</sub>

Magnesium Oxide

1309-48-4

15 mg/m<sup>3</sup>

10 mg/m<sup>3</sup>

Napthenic hydrocarbon

64742-52-2

5 mg/m<sup>3</sup>

5 mg/m<sup>3</sup>

#### CONTROLS

#### ENGINEERING CONTROLS

Local exhaust ventilation may be necessary to control any air contaminants to within their respective exposure limits during

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the use of this product.

### PERSONAL PROTECTIVE EQUIPMENT

Wear a NIOSH/MSHA approved respirator when the product used in poorly ventilated areas or if the workplace levels of ingredients exceed exposure limits. When contact is likely, wear gloves, safety glasses with a face shield, and clean protective clothing to cover arms and legs at a minimum.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

PHYSICAL STATE	Solid
COLOR	Grey
ODOR	None
ODOR THRESHOLD	ND
pH	ND
MELTING POINT	ND
BOILING POINT	ND
FLASH POINT	ND
EVAPORATION RATE	ND
FLAMMABILITY (SOLID, GAS)	ND
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	N/A
VAPOR PRESSURE	ND
VAPOR DENSITY	ND
RELATIVE DENSITY	ND
SOLUBILITY(IES)	ND
PARTITION COEFFICIENT: N-OCTANOL / WATER	ND
AUTO-IGNITION TEMPERATURE	ND
DECOMPOSITION TEMPERATURE	ND
VISOCITY	ND

## SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY	This product is not reactive under normal conditions
CHEMICAL STABILITY	This product is stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTION	Will not occur under normal conditions.
CONDITIONS TO AVOID	None.

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INCOMPATIBLE	Strong acids and oxidizing agents.
MATERIALS	
HAZARDOUS	Formaldehyde, carbon monoxide, carbon dioxide, nitrogen
DECOMPOSITION	oxide, ammonia, phenol, aromatic and aliphatic hydrocarbons,
PRODUCTS	hydrogen chloride, and n-nitrosoamines.

### SECTION 11 – TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	May cause irritation to skin, eyes, gastrointestinal and respiratory tracts.
IRRITATION / CORROSION	May cause irritation to skin, eyes, gastrointestinal and respiratory tracts.
SENSITIZATION	N/A
MUTAGENICITY	N/A
CARCINOGENICITY	N/A
REPRODUCTIVE TOXICITY	N/A
TETRAOGENICITY	N/A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	N/A
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	N/A
ASPIRATION HAZARD	N/A
INFORMATION ON LIKELY ROUTES OF EXPOSURE	Inhalation and dermal likely routes of exposure.
POTENTIAL ACUTE HEALTH EFFECTS	
EYE CONTACT	May cause irritation to eyes.
INHALATION	May cause irritation to respiratory tract.
SKIN CONTACT	May cause skin irritation.
INGESTION	May cause irritation to gastrointestinal tract.
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS	
EYE CONTACT	N/A
INHALATION	N/A
SKIN CONTACT	N/A
INGESTION	N/A
DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE	

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SHORT TERM EXPOSURE – POTENTIAL ND

IMMEDIATE EFFECTS

SHORT TERM EXPOSURE – POTENTIAL ND

DELAYED EFFECTS

LONG TERM EXPOSURE – POTENTIAL ND

IMMEDIATE EFFECTS

LONG TERM EXPOSURE – POTENTIAL ND

DELAYED EFFECTS

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL ND

CARCINOGENICITY N/A

MUTAGENICITY N/A

TERATOGENICITY N/A

DEVELOPMENTAL EFFECTS N/A

FERTILITY EFFECTS N/A

NUMERICAL MEASURES OF TOXICITY ND

(ACUTE TOXICITY ESTIMATE)

TOXICOLOGICAL DATA:

INGREDIENT	ORAL RAT (LD50)	SKIN RABBIT (LD50)	INHALATION RAT (LC50)
Aluminum Oxide	>5000 mg/kg	N/A	N/A
Titanium Dioxide	>5000 mg/kg	>10000 mg/kg	>6.82 mg/l
Carbon Black	>8000 mg/kg	N/A	N/A
Amorphous Silica	>22500 mg/kg	N/A	N/A
Magnesium Oxide	>3870 mg/kg	N/A	N/A
Napthenic Hydorcarbons	>5000 mg/kg	N/A	N/A

### SECTION 12 – ECOLOGICAL INFORMATION

TOXICITY ND

PERSISTENCE AND DEGRADABILITY ND

BIOACCUMULATIVE POTENTIAL ND

MOBILITY IN SOIL ND

OTHER ADVERSE EFFECTS ND

### SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL Review all local, state, and federal regulations concerning

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CONSIDERATIONS                      health and pollution for appropriate disposal procedures.

## SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME                      Not regulated

## SECTION 15 – REGULATORY INFORMATION

### U.S. FEDERAL REGULATION

OSHA                      Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERLA – SARA                      This product has been reviewed according to the EPA “Hazard HAZARD CATEGORY                      Categories” promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: None.

SARA SECTION 313                      This product does contains toxic chemical(s) at or above the de minimus concentrations subject to the reporting requirements of section 313 of Title III Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.

TOXIC SUBSTANCES                      This product meets the compositional requirements of the Toxic CONTROL ACT                      Substances Control Act and contains only chemical ingredients that are listed on the TSCA inventory.

CALIFORNIA PROP. 65                      This product contains no chemical(s) known to California to cause cancer and/or birth defects or other reproductive harm.

## SECTION 16 – OTHER INFORMATION

HMIS RATINGS	HEALTH	FLAMMABILITY	REACTIVITY	PERSONAL PROTECTION
	1	1	0	

### EUROPEAN PRECAUTIONARY PICTOGRAMS



PREVIOUS SDS REVISION                      2/14

DATE

REASON FOR REVISION                      ND



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VOLATILE ORGANIC                      ND

COMPOUNDS (VOC'S)

LEGEND

N/A – Not Applicable, ND – Not Determined

ABBREVIATIONS USED

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighed Average

STEL – Short Term Exposure Limit

NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

NOTICE TO READER

The information contained herein is based on the data available to us and is believed to be correct. However, Western Abrasives, Inc. makes no warranty, express or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

**END OF SAFETY DATA SHEET**