

RESIN BONDED GRINDING WHEELS

Western Abrasives, Inc.

1170 NE 63rd Avenue

Portland, Oregon 97213


SDS Revision Date: May 13, 2016

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

PRODUCT NAME	Resin Bonded Grinding Wheels
END USE	Grinding wheel
MANUFACTURER	Western Abrasives 1170 NE 63 rd 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 – 4 Acute Toxicity, Inhalation – 5 Serious Eye Damage/Eye Irritation – 2B Skin Corrosion/Irritation – 2
SIGNAL WORD	Warning
HAZARD STATEMENT	May be harmful if swallowed (H303) Harmful in contact with skin (H312) May be harmful if inhaled (H333) Causes eye irritation (H320) Causes skin irritation (H315))
HAZARD PICTOGRAMS	
PRECAUTIONARY STATEMENT(S)	<u>Prevention</u> P264 – Wash hands and exposed skin thoroughly after handling. P280 – Wear protective gloves and clothing. Chemical resistant or impervious gloves are sufficient. <u>Response</u> P302 + P352 + P362 + P363 – IF ON SKIN: Wash with plenty

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of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.

P305 + P351 + P338 + P310 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P332 + P313 – If skin irritation occurs: Get medical attention.

P312 + P304 – IF SWALLOWED OR INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P501 – Dispose of contents or container in accordance with local, regional, national and international regulations.

HAZARDS NOT

N/A

OTHERWISE CLASSIFIED

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE

Mixture

OTHER MEANS OF IDENTIFICATION

N/A

CAS # / IDENTIFIERS

INGREDIENT NAME

% BY WEIGHT

CAS NUMBER

Aluminum Oxide

50 – 90

1344-28-1

Silicon Carbide

50 – 90

409-21-2

Trisodium hexafluoroaluminate

0.1 – 5

15096-52-3

Gamma-Aminopropyltriethoxysilane

0.1 – 5

919-30-2

Phenolic Resin

0.1 – 5

N/A

Furfural

0.1 – 5

98-01-1

Zinc Sulfide

0.1 – 5

12169-28-7

Calcium Hydroxide

0.1 – 5

1305-62-0

Manganese Dichloride

0.1 – 5

7773-01-5

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

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INHALATION	contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical attention. 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	Immediately call poison center or doctor. Rinse mouth. 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	Causes skin irritation.
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.

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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 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 STORAGE, INCLUDING ANY INCOMPATIBILITIES Store away from heat and moisture.

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SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

COMPOUND	CAS #	OSHA PEL 8-HR TWA	ACGIH TLV 8-HR TWA
Aluminum Oxide	1344-28-1	5 mg/m ³	1 mg/m ³
Silicon Carbide	409-21-2	15 mg/m ³ (Total Dust) 5 mg/m ³ (Respirable)	10 mg/m ³ (Total Dust) 3 mg/m ³ (Respirable)
Trisodium hexafluoroaluminate	15096-52-3	2.5 mg/m ³ (As Fluoride)	2.5 mg/m ³ (As Fluoride)
Calcium Hydroxide	1305-62-0	15 mg/m ³ (Total Dust) 5 mg/m ³ (Respirable)	5 mg/m ³

CONTROLS

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

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

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	May cause irritation to eyes, gastrointestinal and respiratory tracts.
IRRIATION / CORROSION	Causes irritation to skin.
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	Inhalation and dermal likely routes of

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EXPOSURE	exposure.
POTENTIAL ACUTE HEALTH EFFECTS	
EYE CONTACT	May cause irritation to eyes.
INHALATION	May cause irritation to respiratory tract.
SKIN CONTACT	Causes 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

SHORT TERM EXPOSURE – POTENTIAL	ND
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IMMEDIATE EFFECTS

SHORT TERM EXPOSURE – POTENTIAL	ND
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DELAYED EFFECTS

LONG TERM EXPOSURE – POTENTIAL	ND
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IMMEDIATE EFFECTS

LONG TERM EXPOSURE – POTENTIAL	ND
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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
Gamma-Aminopropyltriethoxysilane	N/A	>2000 mg/kg	>7.35 mg/l

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Zinc Sulfide	>15000 mg/kg	N/A	N/A
Calcium Hydroxide	>5000 mg/kg	N/A	N/A
Manganese Dichloride	>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 CONSIDERATIONS	Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.
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SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME	Not regulated
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SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATION

OSHA	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
CERCLA – SARA HAZARD CATEGORY	This product has been reviewed according to the EPA “Hazard 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: Chronic Health Hazard.
SARA SECTION 313	This product does contain 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 CONTROL ACT	This product meets the compositional requirements of the Toxic Substances Control Act and contains only chemical ingredients that are listed on the TSCA inventory.
CALIFORNIA PROP. 65	This product does not contain chemical(s) known to California to cause cancer and/or birth defects or other reproductive harm.

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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

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