

MSDS Report

Sample Description Ceramic Bonded Brown Corundum Grinding Wheel

Applicant Junan County Dadian Oilstone Factory

Pony Testing International Group

www.ponytest.com

Code: s95mc5019a

Product name: Ceramic Bonded Brown Corundum Grinding Wheel
Revised time: /

Report ID: GMIATJDY99639516
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Material Safety Data Sheet

According to: ST/SG/AC.10/30/Rev.6 (GHS)
Ceramic Bonded Brown Corundum Grinding Wheel

Section 1 - Identification of the substance/preparation and of the company/undertaking

Product Identifier

Product name : Ceramic Bonded Brown Corundum Grinding Wheel

Trade name : Grinding wheel

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Installed on the grinder.

Details of the supplier of the safety data sheet

Supplier : Junan County Dadian Oilstone Factory

Address : Dadian Town, Junan County, Shandong Province, P.R. China 276612

TEL : +86- 18369588228

FAX : +86- 539-7811298

E-mail : /

Emergency Phone # +86- 18369588228

Section 2 - Hazards Identification

Classification of the substance or mixture

Classification according to GHS

Reproductive toxicity(Category 1B)

Carcinogenicity (Category 2)

Specific target organ toxicity - repeated exposure (Category 2)

GHS label elements:

Pictogram



Signal word Danger

Hazard statement(s)

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P263 Avoid contact during pregnancy and while nursing.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

Section 3 - Composition/Information on Ingredient

Chemical composition

Component	CAS No.	Formula	Composition	EC No.	GHS CLASS
Aluminum oxide	1344-28-1	Al ₂ O ₃	81.96%	215-691-6	/
Silicon dioxide	14808-60-7	SiO ₂	10.83%	238-878-4	STOT RE 2 H373
Titanium oxide	13463-67-7	TiO ₂	1.97%	236-675-5	Carc. 2 H351
Boric anhydride	1303-86-2	B ₂ O ₃	1.62%	215-125-8	Repr. 1B H360FD
Calcium oxide	1305-78-8	CaO	1.07%	215-138-9	Skin Corr. 1B Eye Dam. 1 H314 H318
Magnesium oxide	1309-48-4	MgO	0.55%	215-171-9	/
Potassium monoxide	12136-45-7	K ₂ O	0.60%	235-227-6	/
Sodium oxide	1313-59-3	Na ₂ O	0.82%	215-208-9	Ox. Sol. 1 Skin Corr. 1A H271 H314
Iron oxide	1309-37-1	Fe ₂ O ₃	0.35%	215-168-2	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 H315 H319 H335

For the full text of H-Statements mentioned in this Section, see Section 16.

Section 4-First Aid Measures

Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs. Thermal burns should be treated as medical emergencies.

Skin Contact: In case of overexposure to dusts or particulates, wash with soap and plenty of water. While removing contaminated clothing and shoes. If irritation develops and persists or burning sensation is evident, seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical aid if irritation develops and persists.

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Inhalation: Remove from exposure and move to fresh air immediately. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Personal protective equipment for first-aid responders:

No further relevant information available.

Most important symptoms/effects, acute and delayed:

No further relevant information available.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

Section 5 - Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Special hazards arising from the substance or mixture:

Product is not combustible. Under fire conditions toxic fumes may be released. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Keep product and empty container away from heat and sources of ignition.

Advice for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

If packages rupture. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Spilled or released at long industrial condition: Remove ignition sources, Keep away from heat and flame, evacuate area. Avoid dust formation. Avoid breathing dust. Shut off source of the leak only if it is easy to do so. Do not get water inside containers.

Environmental precautions

Keep spilled material out of sewers, ditches and bodies of water.

Methods and materials for containment and cleaning up

Sweep up and place in suitable containers for recycle or disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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Section 7 - Handling and Storage

Precautions for safe handling

Dust generated in handling of this product can be explosive if sufficient quantities are mixed in air. In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Protect against physical damage to containers. Empty containers retain product residue, (dust and/or solids), and can be dangerous. Do not eat, drink or smoke while handling the product. Do not allow water to get into the container.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and flame. Store in a cool, dry, well-ventilated away from incompatible substances. Store in a tightly closed container. Keep away from moisture and water. Keep out of the reach of children.

Specific end uses

No data available

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure limits:

CAS# 1344-28-1:

ACGIH: TLV- TWA: 10 mg/m³ (particulate)

OSHA: PEL-TWA:15mg/m³ (total), TWA: 5 mg/m³ (resp)

Belgium - TWA: 10 mg/m³ (as Al)

France - VME: 10 mg/m³

Japan: 0.5 mg/m³ OEL (respirable dust); 2 mg/m³ OEL (total dust)

Netherlands: MAC-TGG 10 mg/m³

Russia- TWA: 6 mg/m³

United kingdom: 10 mg/m³ TWA (inhalable); 4 mg/m³ TWA (respirable)

CAS# 14808-60-7:

ACGIH: TLV- TWA: 0.025 mg/m³ (respirable)

OSHA: PEL-TWA:10mg/m³ (resp)

NIOSH: REL-TWA:0.05 mg/m³

Denmark- TWA: 0.1 mg/m³ (respirable), 0.3 mg/m³ (total)

Finland - TWA: 0.2 mg/m³

France - VME: 0.1 mg/m³ (resp)

Japan-OEL: continuous 0.03 mg/m³ (respirable)

Germany - MAK: 4 mg/m³ (inhalable), 1.5 mg/m³ (respirable)

Korea - TWA: 0.1 mg/m³

Netherlands - MAC-TGG: 0.075 mg/m³

Russia- STEL: 1 mg/m³; STEL: 3 mg/m³

United kingdom- TWA: 0.3 mg/m³ (respirable)

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CAS# 13463-67-7:

ACGIH: TLV - TWA: 10 mg/m³
 OSHA: PEL-TWA: 15 mg/m³ (total) 5 mg/m³ (resp)
 Belgium - TWA: 10 mg/m³
 Denmark- TWA: 6 mg(Ti)/m³
 France - VLE: 10 mg/m³
 Germany-MAK: 1.5 mg/m³ (respirable)
 Japan-OEL- 10 mg/m³
 Korea-TWA: 10 mg/m³
 Netherlands-MAG-TGG: 10 mg/m³
 New zealand-TWA: 10 mg/m³ (inspirable dust)
 Russia- TWA: 10 mg/m³
 United Kingdom- 10 mg/m³ (inhalable), 4 mg/m³ (respirable)

CAS# 1303-86-2:

ACGIH: TLV- TWA: 10 mg/m³
 OSHA: PEL-TWA: 15 mg/m³ (total), TWA: 5 mg/m³ (resp)
 NIOSH: REL-TWA: 10 mg/m³
 Australia- TWA: 10 mg/m³
 Belgium - TWA: 10 mg/m³
 Denmark- TWA: 10 mg/m³
 France - VME: 10 mg/m³
 Korea - TWA: 10 mg/m³
 Mexico- TWA: 10 mg/m³; STEL: 20 mg/m³
 Netherlands - MAC-TGG: 10 mg/m³
 Russia- STEL: 5 mg/m³
 United kingdom- TWA: 10 mg/m³; STEL: 20 mg/m³

CAS# 1305-78-8:

ACGIH: TLV - TWA: 2 mg/m³
 OSHA: PEL-TWA: 5 mg/m³
 NIOSH: REL-TWA: 2 mg/m³
 Australia - TWA: 2 mg/m³
 Belgium - TWA: 2 mg/m³
 Denmark - TWA: 2 mg/m³
 Finland - TWA: 2 mg/m³
 France - VME: 2 mg/m³
 Korea - TWA: 2 mg/m³
 Mexico- TWA: 2 mg/m³
 Netherlands- MAC-TGG 2 mg/m³
 Russia - STEL: 1 mg/m³, Skin
 United Kingdom-TWA: 2 mg/m³



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CAS# 1309-48-4:

ACGIH: TLV - TWA: 10 mg/m³ (inhalable)
OSHA: PEL-TWA: 15mg/m³
Australia- TWA: 10 mg/m³ (fume)
Belgium - TWA: 10 mg/m³ (fume)
Denmark- TWA: 6 mg(Mg)/m³
France - VME: 10 mg/m³ (fume)
Germany - MAK: 4 mg/m³ (inhalable), 1.5 mg/m³ (respirable)
Korea - TWA: 10 mg/m³
Netherlands - MAC-TGG: 10 mg/m³
Russia- STEL: 4 mg/m³
United kingdom- TWA: 4 mg(Mg)/m³; 10 mg(Mg)/m³ (inhalable);
STEL: 10 mg/m³ (fume,resp)

CAS# 1309-37-1:

ACGIH: TLV- TWA: 5 mg/m³ (respirable)
OSHA: PEL-TWA:15mg/m³ (total)TWA: 5 mg/m³ (resp)
NIOSH: REL-TWA:5 mg/m³
Belgium - TWA: 2 ppm (fume, as Fe); 5 mg/m³ (fume, as Fe)
France - VME: 5 mg/m³ (fume, as Fe)
Germany - MAK: 1.5 mg/m³ (respirable, as Fe))
Netherlands - MAC-TGG: 10 mg/m³
Russia - TWA: 6 mg/m³
United Kingdom - TWA: 4 mg/m³ TWA (respirable); 10 mg/m³ (inhalable); 5 mg/m³(as Fe)
United Kingdom - STEL: 10 mg/m³ STEL (as Fe)

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes Protection: If operating conditions create dust that is not adequately controlled, wear appropriate goggles.

Skin Protection: Use protective gloves during industrial production process.

Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respirators Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Other Protection: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. To maintain good health habits.



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Section 9 - Physical and Chemical Properties

Physical State	Massive
Colour	Gray
Odour	Odorleee
pH	No data available
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flash point	Not applicable
Flammability (solid, gas)	No data available
Lower and upper explosion limit/ flammability limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Density/Relative density	No data available
Solubility	Insoluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available

Section 10 - Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	
Hazardous Polymerization	Will not occur.
Hazardous Reactions	None under normal processing.
Conditions to avoid	Incompatible materials. Avoid dust formation.
Incompatible materials	Strong oxidizing agents, Strong acids, Strong bases.
Hazardous decomposition products	Under fire conditions toxic fumes may be released.

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity:

CAS# 1344-28-1:

Oral, rat: LD50 > 5000 mg/kg;

Intraleural, rat: LD50 > 3600 mg/kg;



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CAS# 13463-67-7:

Oral, rat: LD50 > 10 g/kg;

Skin, rabbit: LD50 > 10 g/kg;

CAS# 1303-86-2:

Oral, mouse: LD50 = 3163 mg/kg;

Oral, rat: LD50 = 3150 mg/kg;

CAS# 1305-78-8:

Oral, rat: LD50 = 500 mg/kg;

CAS# 1309-48-4:

Inhalation, human: TCLo = 400 mg/m³

CAS# 1309-37-1:

Oral, rat: LD50 > 10000 mg/kg;

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

Aluminum oxide - This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Silicon dioxide - 2A - Group 2A: Probably carcinogenic to humans (Quartz). 1 - Group 1: Carcinogenic to humans (Quartz).

Titanium dioxide - IARC: 2B - Group 2B: Possibly carcinogenic to humans.

Boric anhydride - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Calcium oxide - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Magnesium oxide - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Potassium monoxide- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Sodium oxide- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Iron oxide - This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: Group 3 - Not classifiable as to carcinogenicity to humans.

Reproductive toxicity CAS# 1303-86-2: Presumed human reproductive toxicant.

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure. - Lungs

Aspiration hazard No data available

Potential Health Effects

Eye: Dust cause mechanical irritation. Scratching of the cornea can occur if eye is rubbed.

Skin: Dust may cause slight irritation. Do not get onto broken skin. It will contaminate the wound.

Ingestion: Ingestion is an unlikely route of exposure; no hazard in normal industrial use. If ingested in sufficient quantity may cause injury such as gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, abdominal pain, and diarrhea. May be a choking hazard.

Inhalation: Inhalation of airborne dust may cause irritation to the mucous membrane and upper airways. Symptoms of exposure can include coughing, sneezing and breathing difficulties. Inhalation of dust may aggravate a pre-existing respiratory condition such as asthma, bronchitis, emphysema. Repeated or prolonged inhalation may cause lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

Signs and Symptoms of Exposure

Lungs may be affected by repeated or prolonged exposure to dust particles, resulting in siderosis, a benign condition. This material may contain small amounts of crystalline silica in the form of cristobalite. Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS#: CAS# 1344-28-1: BD1200000/CAS# 14808-60-7: VV7330000/ CAS# 13463-67-7: XR2275000/
CAS# 1303-86-2: ED7900000/ CAS# 1305-78-8: EW3100000/ CAS# 1309-48-4: OM3850000/
CAS# 12136-45-7: Unlisted/ CAS# 1313-59-3: Unlisted / CAS# 1309-37-1: NO7400000 NO7420000
NO7480000

Section 12 - Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	Do not empty into drains.

Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues / Unused Products: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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青岛实验室: (0532) 88706866
天津实验室: (022) 27360730
新疆实验室: (0991) 6684186

长春实验室: (0431) 85150908
哈尔滨实验室: (0451) 88104651
大连实验室: (0411) 84650820
郑州实验室: (0371) 69350670

上海实验室: (021) 64851999
宁波实验室: (0574) 87736499
杭州实验室: (0571) 87219096
苏州实验室: (0512) 62997900

深圳实验室: (0755) 26050909
广州实验室: (020) 89224310
武汉实验室: (027) 83997127
厦门实验室: (0592) 5568048

Contaminated packaging: Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

Section 14 - Transport Information

	IATA	IMDG	RID/ADR
Proper shipping name	Not regulated	Not regulated	Not regulated
Hazard class	/	/	/
Un number	/	/	/
Packing group	/	/	/

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory information: Reference to the local, national, US, EU, CA and international
Canada

All chemicals in this product are listed on Canada's DSL List.

US Federal

Toxic Substance Control Act (TSCA)

All chemicals in this product are listed on the TSCA Inventory.

China

Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)

All chemicals in this product are listed on the IECSC Inventory.

Section 16 - Additional Information

MSDS Creation Date: Jan 10, 2018

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Text of H-code(s) mentioned in Section 3

Eye Irrit. 2: Eye irritation(Category 2)

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天津实验室: (022) 27360730 大连实验室: (0411) 84650820 杭州实验室: (0571) 87219096 武汉实验室: (027) 83997127
新疆实验室: (0991) 6684186 郑州实验室: (0371) 69350670 苏州实验室: (0512) 62997900 厦门实验室: (0592) 5568048

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Skin Irrit. 2: Skin irritation (Category 2)
STOT SE 3: Specific target organ toxicity - single exposure(Category 3)
STOT RE 2: Specific target organ toxicity - repeated exposure (Category 2), Lungs
Repr. 1B: Reproductive toxicity (Category 1B)
Ox. Sol. 1: Oxidizing solid (Category 1)
Skin Corr. 1A: Skin corrosion (Category 1A)
Skin Corr.1B: Skin corrosion (Category 1B)
Eye Dam. 1: Serious eye damage (Category 1)
Carc. 2: Carcinogenicity (Category 2)
H271 May cause fire or explosion; strong oxidiser.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H360FD May damage fertility. May damage the unborn child.
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

Other Information:

ACGIH: (American Conference of Governmental Industrial Hygienists); CAS: (Chemical Abstracts Service);
DSL: (the Domestic Substances List of Canada); EC: (European Commission); IARC: (International Agency
for Research on Cancer); IATA: (International Air Transport Association); IMDG: (International Maritime
Dangerous Goods); ADR: (European Agreement Concerning the International Carriage of Dangerous Goods by
Road); RID: (Regulations Concerning the International Carriage of Dangerous Goods by Rail); LD50: (Lethal dose,
50 percent kill); NDSL: (the Non-domestic Substances List of Canada); NIOSH: (US National Institute for
Occupational Safety and Health); NTP: (US National Toxicology Program); OSHA: (US Occupational Safety and
Health); PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit); RTECS: (Registry of
Toxic Effects of Chemical Substances); STEL: (Short Term Exposure Limit); TDG: (Recommendations on the
TRANSPORT OF DANGEROUS GOODS Model Regulations); TSCA: (Toxic Substances Control Act of USA);
IECSC: (Inventory of Existing Chemical Substances Produced or Imported in China); TWA: (Time Weighted
Average); TLV: (Threshold Limit Value)

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