

MATERIAL SAFETY DATA SHEET

BROWN FUSED ALUMINA

Revised date: 18-06-2008

1. Identification of material / preparation and firm	
1.1 Description of preparation	Brown Fused Alumina Grits
1.2 Use of the preparation	Abrasive, Grinding Wheel, Blasting Media
1.3 Detail of manufacturer / supplier	
Firm	Dragon Abrasives Group, Ltd.
Address	Rm. 2519, Trading Times Apartment, #265 Anshan West Rd. Tianjin China
Postal code	300192
Phone	0086-22-87899539
Fax	0086-22-87899537

2. Composition / Information on ingredients				
Chemical characterization of the preparation				
Description		Mixture of the substances listed below with Admixtures which are, pursuant to the Ordinance on Dangerous Substances (GefStoffV), not subject to labeling Requirements.		
Contents (average values)		Garnet sand		
EC No. CAS No.	Description	%	Code letter	R-sentences
215-691-6 1344-28-1	Aluminium oxide (Al ₂ O ₃)	95.00	-	-
231-716-3 7699-41-4	Silicon Oxide (SiO ₂)	1.20	-	-
215-168-2 1309-37-1	Iron (III) Oxide (Fe ₂ O ₃)	0.20	-	-
13463-67-7	Titanium Oxide (TiO ₂)	2.8		
215-171-9 1309-48-4	Magnesium oxide (MgO)	0.30	-	-
215-138-9 1305-78-8	Calcium oxide (CaO)	0.30	-	-
215-266-5 1317-35-7	Manganese oxide (MnO)	0.01	-	-
	Total Chlorides (Cl)	10 ppm	-	-
	Lead (Zn)	0.0015	-	-
	Copper (Cu)	0.003	-	-

3. Possible dangers

Classification	Not subject to labeling requirements under the Dangerous Preparations Directive 1999/45/EC However, please note the information contained in this safety data sheet. Garnet sand is not injurious to the health. No. Danger of silicosis arises when using the product. Garnet sand is not carcinogenic and is Toxicologically harmless
Additional danger warnings for humans And environment	-

4. First Aid measures

General information	-
After inhalation	Take injured person into the fresh air and have Him/her lie calmly.
After contact with skin	Wash off with soap and water.
After contact with eyes	In case of contact with eyes, rinse open eyes Under flowing water for 10 minutes.
After swallowing	Rinse out mouth and drink lots of water, Do not Try and cause vomiting. If person feels unwell, Consult doctor.
Protection of person providing First Aid	Ensure the person provided First Aid is protected
Notes for the doctor	-

5. Fire-fighting measures

Suitable extinguishing substances	Product itself does not burn. Adapt extinguishing Measures to environment.
Extinguishing substances which are not Suitable due to safety reasons.	None known
Special dangers from the substance or the Preparation itself, its combustion products Or gases which arise	None known.
Special protective equipment in fighting fire	-
Additional information	-

6. Accidental release measures

Person-related precautionary measures	Avoid dust formation See protective measures under points 7 and 8
Environmental protection measures	-
Procedures to clean up / take up product	Take up mechanically and dispose of properly.
Additional information	-

7 Handling and storage	
7.1 Handling	
Information on dealing with product safely	Avoid dust formation.
Information on fire and explosion Protection.	No special fire protection measures necessary.
7.2 Storage	Store in the dry, Material tends to agglomerate in Damp conditions.
Requirements of containers	-
Unsuitable material for Containers/equipment	-
Information on mixed storage	L GK 13 (non-flammable solid materials)

8 Exposure limits and equipment for personal protection

8.1 Exposure limit values/Occupational limit values	
General dust limit value	
Inhale amount (E)	10 mg/m ³
Alveolar amount (A)	3 mg/m ³
8.2 Equipment for personal protection	
Respiratory protection	Normally, no personal respiratory protection is Necessary in the case of insufficient ventilation or exceeding occupational limit values, a breathing mask is to be worn (FFP filtering half-mask face piece, depending on the given Concentration)
Hand protection	Glove material: leather
Eye protection	Tight-fitting protective goggles. (closed safety Goggles)
Body protection	-
Protective and hygiene measures	Minimum standards regarding protective Measures for dealing with working substances Are listed in TRGS 500. do not eat, drink, smoke Or take snuff during work. Avoid contact with skin, eyes and clothes. Remove soiled or soaked clothes immediately, Wash hands before breaks and at the end of work. Precautionary protection of skin through skin Ointments.

9 physical and chemical properties

9.1 Appearance	
State of aggregation	Solid
Shape	Angular
color	Brown
Smell	Odourless

9.2 Safety-relevant data	
pH value	n.m.a. (not meaningfully applicable)
Melting point	Approx. 1,850 C
Solidification point	n.m.a. (not meaningfully applicable)
Boiling point	n.m.a. (not meaningfully applicable)
Flash point	Substance is inorganic.
Autoignition	The product is not self-igniting.
Danger of explosion	The product is not explosive.
Relative density	Approx.3.90-3.95 g/cm3
Water solubility	Insoluble

10 Stability and reactivity	
Conditions to be avoided	-
Substances to be avoided	-
Dangerous decomposition points	No dangerous decomposition products known.
Other details	-

11 Toxicological information	
Acute toxicity	-
Irritation of and caustic effect on the skin	Not irritating
Irritation of and caustic effect on eyes	Not irritating
Sensitization	No sensitization known.
General comments	-

12 Ecological information	
Ecotoxic effects	No damaging effect on water organisms is to be Expected.
Information on elimination	This product is, according to experience so far, Inert and not degradable.
Further information on ecology	With proper handling and use, no environmental Problems are to be expected.

13 Disposal considerations	
Disposal / waste (product)	Unused abrasive: The allocation of the EWC codes / waste Descriptions are to be carried out specific to branch and process in accordance with AAV. List of proposals for EWC codes / waste Description pursuant to AAV. 120117 abrasive Waste with the exception of waste which comes Under 120116.
Uncleaned packaging	Can, taking into account the necessary technical Regulations, and after consultation with the Disposal agency, be burned together with

	Household waste.
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14 Transport information

Transport / Automobile	Not dangerous goods within the meaning of These transport regulations.
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15 Regulations

15.1 Labeling	
Labeling in accordance with EC Directive	The preparations are not subject to Labeling requirements under EC Directives.
Code letter(s) and description(s) of danger	-
Danger-determining component(s) for label	-
Danger symbol and Description(s) of danger	-
R-sentences	-
S-sentences	26 in case of contact with eyes, immediately Rinse thoroughly with water and consult doctor 37/39 wear suitable protective gloves and Protective goggles when working.
comments	-
15.2 National regulations	
Major Accidents Ordinance	-
Technical guidelines regarding air	-
Water endangerment category	Does not endanger water; Classification pursuant to the Administrative Guideline on water-endangering substances (VwVwS), appendix 4
Other regulations, restrictions And banning ordinances	-

16 Other information

Wording of the R-sentences under section 2	The details in this safety data sheet correspond To the best of our knowledge to our findings at The time of printing. The information is intended To provide indications on how to use the product Named in this safety data sheet safely in respect of storage, processing, transport and disposal, the information is not transferable to other products. Insofar as the product named in this safety data Sheet is mingled, mixed or processed, or worked on, the information in this safety data sheet anything to the contrary, cannot be transferred to the new material made in this way.
R-sentences	
Recommended restriction of use	
Reason for change	

For and on behalf of
DRAGON ABRASIVES GROUP CO., LIMITED
龍 礪 磨 有 限 公 司


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Authorized Signature(s)