

Material Safety Data Sheet

Brown Fused Alumina

This generic SDS is provided by Xinli to give information to assist with material handling of the products listed which are not classified as hazardous under the GHS and / or the CLP regulations.

SECTION 1: Identification of the substance/mixture of the company/undertaking

1.1 Product identifier

Product name: Brown Fused Alumina
Synonyms / trade names: BFA
CAS number: 1344-28-1

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

Identified uses: Abrasive material, polishing, sandblasting, refractory material

1.3 Details of the supplier of the safety data sheet

Zhengzhou Xinli Wear-Resistant Material Co.,Ltd.
Zhengzhou Dragon Lake Economic Development Zone, Henan Province, China
Xinli-abrasivematerial@outlook.com
+86 158 3719 1978

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008): Physical and chemical hazards: not classified
Human health: not classified
Environment: not classified

The full text for all R-phrases and hazard statements are displayed in section 16.

2.2 Label elements

Label in accordance with (EC) No. 1272/2008 No pictogram required.

2.3 Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.1 Substances

Product / ingredient name	%	CAS No	EC No	Classification
				Regulation (EC) No. 1272/2008 [CLP]
Aluminium Oxide	>94	1344-28-1	215-691-6	Not classified
Quartz	<2	14808-60-7	238-87804	Not classified
Amorphous Silica	<1.7	7631-86-9	-	Not classified

The full text for all R phrases and hazard statements, if present, are displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion: Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Skin contact: Wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No specific symptoms noted.
Ingestion:	No specific symptoms noted.
Skin contact:	No specific symptoms noted.
Eye contact:	No specific symptoms noted.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Fire fighting measures

5.1 Extinguishing media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: None under normal conditions

5.3 Advice for firefighters

Special fire fighting procedures: No specific fire fighting procedures given

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet

6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Transfer to a container for disposal.

6.4 Reference to other sections

For personal protection see section 8. For waste disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimise the risk of inhalation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3 Specific end use(s)

The identified uses for this product are detailed in section 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Name	STD	TWA – 8hrs		STEL – 15mins		Notes
		Inhal. Dust	Respir. Dust	Inhal. Dust	Respir. Dust	
Aluminium Oxide	WEL	10.0 mg/m ³	4.0 mg/m ³			

WEL = Workplace Exposure Limit

Ingredient comments:

Dust contains respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method is available at www.crystallinesilica.eu

8.2 Exposure controls

Protective equipment



Engineering measures:

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Respiratory equipment:

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas.

Hand protection:

No specific hand protection noted, but gloves may still be advisable.

Eye protection:

Wear dust resistant safety goggles where this is a danger of eye contact.

Other protection:

Provide eyewash station.

Hygiene measures:

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: Physical and chemical properties

9.1 Information on basic and physical and chemical properties

Appearance:	Granular powder, dust
Colour:	Brown
Odour:	Odourless
Solubility:	Insoluble in water
Melting point (°C):	2000

9.2 Other information

Not relevant

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

Not relevant

10.4 Conditions to avoid

No specific conditions are likely to result in a hazardous situation

10.5 Incompatible materials

Materials to avoid:

No specific, or groups of materials, are likely to react to produce a hazardous situation.

10.6 Hazardous decomposition products

None under normal circumstances

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Not classified
Acute toxicity (Oral LD50):	Not classified (OECD Guideline 401)
Acute toxicity (Dermal LD50):	Not classified (Not necessary)
Acute toxicity (Inhalation LC50):	Not classified (OECD Guideline 403)
Skin corrosion/irritation:	Not classified. (OECD Guideline 404)
Serious eye damage/irritation:	Not classified. (OECD Guideline 405)
Respiratory or skin sensitisation:	Not sensitising. (Key studies)
Germ cell mutagenicity:	Not classified. (OECD Guideline 476 and 474)
Carcinogenicity:	Not classified. (There is no evidence that the product can cause cancer)
Reproductive toxicity:	Not classified (This substance has no evidence of toxicity to reproduction)
STOT-single exposure:	Not classified as a specific target organ toxicant after a single exposure
STOT- repeated exposure:	Not classified as a specific target organ toxicant after repeated exposure
Aspiration hazard:	Not classified (Not anticipated to present an aspiration hazard, based on chemical structure)

SECTION 12: Ecological information

12.1 Toxicity:	Not classified
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential:	No data available.
12.4 Mobility in soil:	Not relevant, due to the form of the product.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	None known

SECTION 13: Disposal considerations

13.1 Waste treatment methods:	Dispose of waste and residues in accordance with local authority requirements.
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SECTION 14: Transport considerations

Road transport notes:	Not classified
Rail transport notes:	Not classified
Sea transport notes:	Not classified
Air transport notes:	Not classified
14.1 UN Number:	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.2 UN proper shipping name:	Not classified for transportation.
14.3 Transport and hazard class(es):	Not classified for transportation.
14.4 Packing group:	Not classified for transportation.
14.5 Environmental hazards	
Environmentally hazardous substances / marine pollutant:	no
14.6 Special precautions for user:	Not classified for transportation.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Not applicable	

SECTION 15: Regulatory information

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

Approved code of practice:	Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
Guidance notes:	Workplace Exposure Limits EH40.
EU Legislation:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment: Not applicable. No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date:	22/06/2020
Revision:	5
Document no:	12,-05EN,20-06
Risk phrases in full:	NC – not classified OECD - Organisation for Economic Co-operation and Development STOT – Specific Target Organ Toxicity

Disclaimer:

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