

SAFETY DATA SHEET

according to Regulation (EU) 2020/878

Page 1/6

Brown Fused Alumina (BFA)

Revision 3 Revision date 2023-11-01

SECTION 1: Identification of the substance/mixture ar	nd of the company/undertaking
4.4. Droduct identifier	

1.1. Product identifie

Web

Brown Fused Alumina (BFA) Product name

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

Description Foundry material.

1.3. Details of the supplier of the safety data sheet

Ransom & Randolph Company

Address 3535 Briarfield Boulevard Maumee, Ohio 43537 USA

www.ransom-randolph.com

Telephone +1 (419) 865-9497

Fax +1 (419) 865-9997

Email SDS@ransom-randolph.com Email address of the rcarter@ransom-randolph.com competent person

1.4. Emergency telephone number

Emergency telephone number

Company

USA +1 419 865 9497

Ransom & Randolph Co.

08:00-17:00 (US Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.2. Label elements

While this material is not considered hazardous under the OSHA Hazard Communication (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handeling proper use of the product. This SDS should be retained and made available for employee.		
	other other users of this product.	
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Precautionary Statement:

Prevention

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

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

P285 - In case of inadequate ventilation wear respiratory protection.

Precautionary Statement:

Response

P302+P352 - IF ON SKIN: Wash with plenty of water/ .

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Hazard Statement No Significant Hazard

Further information

Not applicable. PBT and vPvB assessment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Revision 3 Revision date 2023-11-01

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
aluminum oxide (Aluminium oxides)	1344-28-1			90 - 100%	

Further information

Non-flammable brown solid or powder. Particulate matter may scratch the eyes. May cause minor eye and skin irritation. Inhalation of high concentrations may cause transient upper respiratory

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.		
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.		
Skin contact	No irritation expected. Wash with soap and water.		
Ingestion	No first aid requirements.		
4.2. Most important symptoms and effects, both acute and delayed			

Inhalation	No known adverse health effects.
Eye contact	No known adverse health effects.
Skin contact	No known adverse health effects.
Ingestion	No known adverse health effects.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	No known adverse health effects.
Eye contact	No known adverse health effects.
Skin contact	No known adverse health effects.
Ingestion	No known adverse health effects.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

No Significant Hazard.

5.3. Advice for firefighters

Self-contained breathing apparatus. Wear suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid formation of dust. Wear suitable protective equipment.

6.2. Environmental precautions

No precautions required to be mentioned.

6.3. Methods and material for containment and cleaning up

Avoid formation of dust. Pick up mechanically and dispose of in accordance to regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid formation of dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Revision 3 Revision date 2023-11-01

7.2. Conditions for safe storage, including any incompatibilities

Handle and open container with care.

7.3. Specific end use(s)

Foundry material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

aluminum oxide (Aluminium	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
oxides)		
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total 10	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total 4	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering	Ensure adequate ventilation of the working area. Observe standard industrial hygiene practice.
controls	
Eye / face protection	Approved safety goggles.
Skin protection -	Wear suitable gloves.
Handprotection	
Respiratory protection	Suitable respiratory equipment. Avoid raising dust. Do not breathe dust.
8.2.3. Environmental exposure	Avoid formation of dust.
controls	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Brown
Odour	Odourless
Melting point	Not applicable.
Freezing Point	Not applicable.
Initial boiling point	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not applicable.
Relative Vapour Density	Not applicable.
Fat Solubility	Not applicable.
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Oxidising properties	Not applicable.
Solubility	Insoluble in water

9.2. Other information

Revision Revision date 2023-11-01

9.2. Other information

Conductivity Surface tension

No data available

No data available

Bulk Density

> 3.9

Gas group

No data available

Benzene Content Lead content

Not applicable.

VOC (Volatile organic

Not applicable.

compounds)

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard.

10.4. Conditions to avoid

Not relevant.

10.5. Incompatible materials

No Significant Hazard.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity	

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Serious eye damage/irritation

Based on available data, the classification criteria are not met. May cause irritation to skin.

Based on available data, the classification criteria are not met. Particles may cause physical injury to the eye.

Respiratory or skin

sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met. May cause minor transient

Aspiration hazard

Repeated or prolonged

respiratory irritation.

exposure

Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.

11.1.4. Toxicological Information

Brown Fused Alumina (BFA) Oral Rat LD50: > 5000 mg/kg Inhalation Rat LC50/4 h: 7.6 mb/l

SECTION 12: Ecological information

12.1. Toxicity

Brown Fused Alumina (BFA) Daphnia EC50/48h: 100.000 mg/l Fish LC50/96h: 100.000 mg/l

Revision 3
Revision date 2023-11-01

	Revision date 2023-11-0		
12.2. Persistence and degradability			
	Not applicable.		
12.3. Bioaccumulative potential			
	Not applicable.		
Partition coefficient			
	Brown Fused Alumina (BFA) No data available		
12.4. Mobility in soil			
	Not applicable.		
12.5. Results of PBT and vPvB	assessment		
	Not applicable.		
12.7 Other adverse effects			
	No data is available on this product.		
SECTION 13: Disposal cons	iderations		
13.1. Waste treatment methods			
	Dispose of in compliance with all. local and national regulations.		
Disposal methods	•		
	Contact a licensed waste disposal company.		
Disposal of packaging	·		
	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.		
Further information			
	For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.		
SECTION 14: Transport info	rmation		
14.1. UN number			
	The product is not classified as dangerous for carriage.		
14.2. UN proper shipping name			
	The product is not classified as dangerous for carriage.		
14.3. Transport hazard class(es			
	The product is not classified as dangerous for carriage.		
14.4. Packing group			
	The product is not classified as dangerous for carriage.		
14.5. Environmental hazards			
	The product is not classified as dangerous for carriage.		
14.6. Special precautions for use	er		
	The product is not classified as dangerous for carriage.		
14.7 Maritime Transport in bulk	according to IMO instruments		
	The product is not classified as dangerous for carriage.		
Further information			
	The product is not classified as dangerous for carriage.		
SECTION 15: Regulatory inf	ormation		

Revision 3 Revision date 2023-11-01

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Regulations U.S. FEDERAL REGULATIONS: Alumina. CERCLA 103 Reportable Quantity: Alumina is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. SARA TITLE III: Hazard Category For Section 311/312: acute health Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None Section 302 Extremely Hazardous Substances (TPQ): None EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory. U.S. STATE REGULATIONS California Proposition 65: This product contains the following substances known to the State of California to cause cancer: none INTERNATIONAL REGULATIONS: Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL). Canadian WHMIS Classification: not a controlled product. 15.2. Chemical safety assessment Not required. SECTION 16: Other information Other information Revision This document differs from the previous version in the following areas:. 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point). 9 - 9.1. Information on basic physical and chemical properties (Melting point). Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.