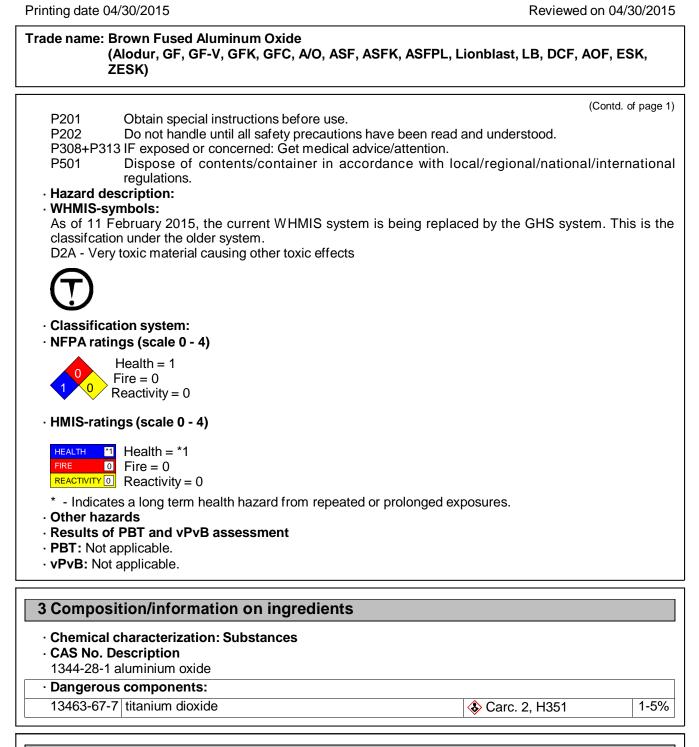
Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 04/30/2015

Reviewed on 04/30/2015

1 Identification	
· Product identifier	
 Trade name: <u>Brown Fused Aluminum Oxide</u> (Alodur, GF, GF-V, GFK, GFC, A/O, ASF, ASFK, ASFPL, Lionblast, LB, ZESK) 	, DCF, AOF, ESK,
 Article number: No other identifiers CAS Number: 1344-28-1 	
 Recommended use and restriction on use Recommended use: Abrasives Restrictions on use: Contact manufacturer. 	
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: Imerys Fused Minerals 3455 Hyde Park Blvd, MPO Box 1438 Niagara Falls, New York 14302 716-286-1234 	
• Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585	
2 Hazard(s) identification	
 Classification of the substance or mixture GHS08 Health hazard Carc. 2 H351 Suspected of causing cancer. Additional information: There are no other hazards not otherwise classified that have been identified. 0 percent of the mixture consists of ingredient(s) of unknown toxicity. 	
 Label elements GHS label elements The substance is classified and labeled according to the Globally Harmonized System (G Hazard pictograms 	GHS).
GHS08	
· Signal word Warning	
 Hazard-determining components of labeling: titanium dioxide Hazard statements H351 Suspected of causing cancer. Precautionary statements 	
P280 Wear protective gloves/protective clothing/eye protection/face protection.	(Contd. on page 2)

acc. to OSHA HCS (29 CFR 1910.1200)



4 First-aid measures

· Description of first aid measures

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.

(Contd. on page 3)

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(Alodur, GF, GF-V, GFK, GFC, A/O, ASF, ASFK, ASFPL, Lionblast, LB, DCF, AOF, ESK, ZESK)

(Contd. of page 2) After skin contact: Brush off loose particles from skin. Clean with water and soap. If skin irritation is experienced, consult a doctor. · After eye contact: Immediately remove contact lenses if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. · Information for doctor: · Most important symptoms and effects, both acute and delayed Coughing Gastric or intestinal disorders **Breathing difficulty** · Danger Danger of impaired breathing. Suspected of causing cancer. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures · Extinguishing media • Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Wear fully protective suit.
- · Additional information No further relevant information available.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Use respiratory protective device against the effects of fumes/dust/aerosol.
 For large spills, wear protective clothing.
 Avoid formation of dust.
 Ensure adequate ventilation.
 Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13. Send for recovery or disposal in suitable receptacles.

(Contd. on page 4)

(Contd. of page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

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(Alodur, GF, GF-V, GFK, GFC, A/O, ASF, ASFK, ASFPL, Lionblast, LB, DCF, AOF, ESK, ZESK)

· 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.

7 Handling and storage

· Handling:

· Precautions for safe handling

Prevent formation of dust.

- Any deposit of dust which cannot be avoided must be regularly removed.
- Use only in well ventilated areas.

Avoid breathing dust.

- Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs.
- Further information about storage conditions:
- Store in cool, dry conditions in well sealed receptacles.
- Store receptacle in a well ventilated area.
- Protect from humidity and water.
- This product is hygroscopic.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

Components with limit values that require monitoring at the workplace:	
--	--

1344-28-1 alu	ninium oxide	
PEL (USA)	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.	
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction	
EL (Canada)	Long-term value: 1.0 mg/m ³ respirable, as Al	
		(Contd. on page 5)

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(Alodur, GF, GF-V, GFK, GFC, A/O, ASF, ASFK, ASFPL, Lion	blast, LB, DCF, AOF, ESK,
ZESK)	
· · · · · · · · · · · · · · · · · · ·	

			(Contd. of page 4)
	EV (Canada)	Long-term value: 10 mg/m ³ total dust	· · · · · · ·
	LMPE (Mexico)	Long-term value: 1* mg/m ³ A4, *fracciòn respirable	
	13463-67-7 tita	nium dioxide	
	PEL (USA)	Long-term value: 15* mg/m ³ *total dust	
	REL (USA)	See Pocket Guide App. A	
	TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC	
	EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust;**respirable fraction; IARC 2B	
	EV (Canada)	Long-term value: 10 mg/m³ total dust	
	LMPE (Mexico)	Long-term value: 10 mg/m ³ A4	
	· Additional info	rmation: The lists that were valid during the creation were used as basis.	
	The usual preca Keep away from Wash hands be Avoid contact w Avoid close or lo Do not inhale du Engineering co Breathing equi Use suitable res For spills, respir Protection of h Wear gloves for Gloves are advis The glove mate Material of glov The selection o quality and varie	ong term contact with the skin. Just / smoke / mist. prioris: No further relevant information available. prent: spiratory protective device in case of insufficient ventilation. atory protection may be advisable. ands: The protection against mechanical hazards according to OSHA and NIOS sed for repeated or prolonged contact. rial has to be impermeable and resistant to the product/ the substance/ the ves f the suitable gloves does not only depend on the material, but also on as from manufacturer to manufacturer. :	e preparation.
	Safety g	-	
'	 Body protectio Not required up 	n: der normal conditions of use.	
		be required for spills.	

(Contd. on page 6)

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(Contd. of page 5) • Limitation and supervision of exposure into the environment No special requirements.

Risk management measures No special requirements.

Appearance: Granulate Form: Granulate Color: Light brown Dark brown Dark brown Odor: Odorless Odor threshold: Not determined. pH-value: Slightly alkaline Change in condition Undetermined. Melting point/Melting range: 2050 °C (3722 °F) Boiling point/Boiling range: Undetermined. Flash point: Not applicable. Flash point: Not determined. Auto-ignition temperature: Not determined. Auto igniting: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Lower: Not determined. Upper: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density Not determined. Vapor density Not determined. Vapor density Not determined. Vapor density Not applicable. Pensity at 20 °C (68 °F):<	Information on basic physical and	d chemical properties	
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Viscosity: Dynamic: Not applicable.		Insoluble.	
Dynamic: Not applicable.	Partition coefficient (n-octanol/w	ater): Not determined.	
	Viscosity:		
Kinematic: Not applicable.			
	Kinematic:	Not applicable.	

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· Other information

No further relevant information available.

(Contd. of page 6)

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions Reacts with strong acids. Reacts with oxidizing agents. Reacts with strong alkali.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Toxic metal oxide smoke

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Slight irritant effect on eyes.
- · Sensitization: No sensitizing effects known.
- · Subacute to chronic toxicity: Suspected of causing cancer.
- Additional toxicological information:
- · Carcinogenic categories

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

- Substance is not listed.
- · Probable Routes of Exposure
- Inhalation.
- Eye contact.
- Skin contact.
- Acute effects (acute toxicity, irritation and corrosivity): From product as supplied: None.
- · Repeated Dose Toxicity:
- Suspected of causing cancer.

Repeated or long-term inhalation of product dusts may cause pulmonary disease.

May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 8)

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(Contd. of page 7)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: Generally not hazardous for water
- · Persistence and degradability
- Inorganic product, is not eliminable from water by means of biological cleaning processes.
- · Behavior in environmental systems:
- · Bioaccumulative potential Does not accumulate in organisms
- Mobility in soil No further relevant information available.
- Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

Can be reused after reprocessing.

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14 Transpor	t information
-------------	---------------

 · UN-Number · DOT, ADR, ADN, IMDG, IATA · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA · Transport hazard class(es) 	Not Regulated Not Regulated
 DOT, ADR, ADN, IMDG, IATA Class Packing group 	Not Regulated
 DOT, ADR, IMDG, IATA Environmental hazards: 	Not Regulated
Marine pollutant:	No
 Special precautions for user 	Not applicable.
· Transport in bulk according to Annex II of	••
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

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(Contd. of page 8)

5 Regulato	ry information	
 Safety, heat United State SARA 	Ith and environmental regulations/legislation specific for the substance es (USA)	or mixture
· Section 355	i (extremely hazardous substances):	
Substance is	s not listed.	
· Section 313	(Specific toxic chemical listings):	
1344-28-1 a	aluminium oxide	
· TSCA (Toxi	c Substances Control Act):	
Substance is	s listed.	
· Proposition	1 65 (California)	
· Chemicals	known to cause cancer:	
13463-67-7	titanium dioxide	
· Chemicals	known to cause reproductive toxicity for females:	
Substance is	s not listed.	
· Chemicals	known to cause reproductive toxicity for males:	
Substance is	s not listed.	
· Chemicals	known to cause developmental toxicity:	
Substance is	s not listed.	
· Carcinogen	ic categories	
•	onmental Protection Agency)	
Substance is	s not listed.	
· IARC (Inter	national Agency for Research on Cancer)	
13463-67-7	titanium dioxide	4
· TLV (Thres	hold Limit Value established by ACGIH)	
	aluminium oxide	1
13463-67-7	titanium dioxide	/
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7	titanium dioxide	
· State Right	to Know Listings	
Substance is	s not listed.	
	ubstance listings:	
	omestic Substances List (DSL)	
Substance is	s listed.	
	ngredient Disclosure list (limit 0.1%)	
Substance is	s not listed.	
		(Contd. on page

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(Contd. of page 9)

· Canadian Ingredient Disclosure list (limit 1%)

1344-28-1 aluminium oxide

• Other regulations, limitations and prohibitive regulations This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 04/30/2015 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Carc. 2: Carcinogenicity, Hazard Category 2 Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com