

1 Identification**Product identifier:** Brown Fused Aluminum Oxide**TREIBACHER**
A L O D U R**Trade name:**

GF, GF-V, GFK, GFC, A/O, ASF, ASFK, ASFPL, Lionblast, LB, DCF, AOF, ESK, ZESK, ZESCC, BZESCC, BZESK, EPL, BEPL, BEPLCC, RBT9, RBT9-C

CAS Number: 1344-28-1**Recommended use:** Abrasive applications**Restrictions on use:** Contact manufacturer.**Manufacturer / Supplier:**Imerys Fused Minerals Niagara Falls, Inc.
2000 College Avenue, MPO Box 1438
Niagara Falls, New York 14302
716-286-1234**Emergency telephone number:**

(716) 286-1234

After 5pm weekdays, weekends and holidays: (716) 940 3866

2 Hazard(s) identification**GHS classification:**

Carcinogen (Category 2) based on presence of titanium dioxide, CAS No. 13463-67-7

Signal word: Warning**Hazard statement:** Suspected of causing cancer via inhalation**Pictogram:****Precautionary statements:**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If exposed or concerned: Get medical advice/attention.
- Store locked up.
- Dispose of contents/containers in accordance with local regulations.
- Long term exposure can cause lung injury. Risk of injury is dependent on the duration and level of exposure

3 Composition / Information on ingredients

Typical Chemical characterization:

Al ₂ O ₃	> 95%*	(Aluminum Oxide, CAS No. 1344-28-1)
SiO ₂	< 1%*	(Silicon Dioxide, CAS No. 7631-86-9)
TiO ₂	< 3%*	(whereas Titanium dioxide, CAS No. 13463-67-7, Carc. 2 < 0.5% g/g)

*Oxide equivalents

4 First-aid measures

Inhalation: Remove to fresh air**Ingestion:** Drink plenty of water. Never give liquid to an unconscious person.**Eye Contact:** Immediately rinse with water for several minutes**Skin Contact:** Wash skin thoroughly with soap and water.**Most important symptoms and effects, both acute and delayed:**

Coughing. Gastric or intestinal disorder. Breathing difficulty

5 Fire-fighting measures

Suitable extinguishing agents:

Use firefighting measures that suit the environment.

Advice for firefighters:Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:Use proper respiratory and personal protective equipment.
Use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended.
Minimize the generation of dust.**Methods and material for containment and cleaning up:**Vacuum, pump, or scoop spilled material into containers for reclaiming or disposal.
Do not discharge into drains, watercourse, or on the ground.

7 Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. If excessive dust is generated, provide adequate ventilation and use proper respiratory and personal protective equipment.

Conditions for safe storage, including any incompatibilities

Store in well-sealed receptacles in a cool, dry, and well-ventilated place.

Store away from oxidizing agents and foodstuffs.

Protect from humidity and water.

This product is hygroscopic.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

1344-28-1 aluminum oxide

PEL (USA)	Long-term value: 15*; 15**mg/m ³ *Total dust;**Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ 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
EV (Canada)	Long-term value : 10 mg/m ³ total dust
LMPE (Mexico)	Long-term value: 1* mg/m ³ A4, *respirable fraction

13463-67-7 titanium 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
EV (Canada)	Long-term value: 10 mg/m ³ total dust
LMPE (Mexico)	Long-term value: 10 mg/m ³ A4

Titanium dioxide is listed as a carcinogen by the International Agency for Research on Cancer (IARC)

Eye protection: Wear side shield safety glasses.

Hand protection: Rubber gloves are recommended for prolonged exposure.

Respiratory Protection: If a respirator is required, use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended.

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

Form:	Granulate
Color:	Light/dark brown/grey
Odor:	Odorless
Odor threshold:	Not determined
pH value:	Slightly alkaline

Change in condition

Melting point/Melting range:	2000° C (3632°F)
Boiling point/Boiling range:	2900° C (5252°F)

Flash point: Not applicable

Flammability (solid, gaseous): Product is not flammable

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined
Upper:	Not determined

Vapor pressure: Not applicable

Density at 20°C (68°F): 3.95 g/cm³ (32.963 lbs/gal)

Relative density Not determined

Vapour density Not applicable

Evaporation rate Not applicable

Solubility in / Miscibility with Water: Insoluble

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic:	Not applicable
Kinematic:	Not applicable

10 Stability and reactivity

Chemical stability: Chemically stable

Thermal decomposition/conditions to be avoided:
No decomposition if used and stored according to specifications.

Possibility of hazardous reactions: None known

Hazardous decomposition products: None known

11 Toxicological information

See Section 8 for the carcinogenic status of titanium dioxide.

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

13 Disposal considerations**Waste treatment methods****Recommendation:**

Where possible, recycling is preferable to disposal. This product can be disposed of in compliance with local regulations.

Uncleaned packagings:

Recommendation: Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorized waste management company and in accordance with local regulations.

14 Transport information

UN-Number	Not Regulated
DOT, ADR, ADN, IMDG, IATA	
UN proper shipping name	Not Regulated
DOT, ADR, ADN, IMDG, IATA	
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not Regulated
Packing group	
DOT, ADR, IMDG, IATA	Not Regulated
Environmental hazards:	
Marine pollutant:	Not applicable.
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":	-

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)

SARA

Section 355 (extremely hazardous substance): None of the ingredients are listed

Section 313 (specific toxic chemical listings): 1344-28-1 aluminum oxide

TSCA (Toxic Substances Control Act): Ingredients are listed

Proposition 65 (California)

Chemicals known to cause cancer: 13463-67-7 titanium dioxide

Chemical known to cause reproductive toxicity for females: None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed

Carcinogenic categories

EPA (Environmental Protection Agency): None of the ingredients are listed

IARC (International Agency for Research on Cancer): 13463-67-7 titanium dioxide (2B)

TLV (Threshold Limit Value established by ACGIH): 1344-28-1 aluminum oxide (A4)
13463-67-7 titanium dioxide (A4)

NIOSH-Ca (National Institute for Occupational Safety and Health): 13463-67-7 titanium dioxide

State Right to Know Listings: None of the ingredients are listed

Canadian Substance Listings

Canadian Domestic Substances List (DSL):	Ingredients are listed
Canadian Ingredient Disclosure List (limit 0.1%):	None of the ingredients are listed
Canadian Ingredient Disclosure List (limit 1%):	1344-28-1 aluminum oxide

For Canada Only:**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 10/30/2015

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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Carc. 2: Carcinogenicity, Hazard Category 2

Prepared by:

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NOTICE:

This material safety data sheet complements the technical data sheets but does not replace them. The information it contains is based on our present knowledge of the product on the date indicated. It is given in good faith. Users should be warned about the risks associated with using the product for a different purpose than that for which it was developed, and particularly for uses for which we are not qualified to give advice.

These regulatory prescriptions are provided with a view to helping users meet their obligations when using this product. This list should not be considered exhaustive and does not exempt users from ensuring that they are not required to comply with any further prescriptions other than those mentioned above concerning product possession and handling for which they are solely responsible.