



Henan Silk Road

Abrasives & Tools

PRODUCT DATA SHEET
& MATERIAL SAFETY DATA SHEET
acc. to A HCS (29 CFR 1910.1200)

MSDS PRODUCT NAME: Black Aluminum Oxide

1 IDENTIFICATION

Product Identifier	Black Aluminum Oxide
Synonyms	Black Fused Alumina
CAS No. / EC No.	1344-28-1 / 215-691-6
Recommended Use	Product is intended for use in ceramics or refractories, or as an abrasive.
Use(s) Advised Against	Contact manufacturer if using product outside of recommended use cases.
Manufacturer/Supplier	Email: info@silkroadabrasives.com Tel: (+86) 18638167333 Address: Zhengzhou High-tech Zone Enterprise Headquarters Base Innovation Park in Henan Province https://www.silkroadabrasives.com/

All other regions contact your local poison control center or local chemical authority.

2 HAZARDS IDENTIFICATION



Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/ EC) in the EU: H351.

Health Hazard:	Carc. 2 H351 Suspected of causing cancer. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable. Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Classification system:	The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.
Label elements:	Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS). This product does not have a classification according to the CLP regulation. The product is classified and labelled according to the CLP regulation.
Hazard pictograms:	Not applicable within the EU; applicable only for North America.



Signal word: Not applicable within the EU; applicable only for North America. **Warning**

Hazard-determining components of labelling: Titanium Dioxide

Hazard statements: The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351. H351 Suspected of causing cancer.

Precautionary statements: Applicable only within the United States (USA)
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

P281: Use personal protective equipment as required.

P202: Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

WHMIS-symbols: Not hazardous under WHMIS

Hazard description:

NFPA ratings (scale 0 - 4)

Health = 0

0 Fire = 0

0 0 Reactivity = 0



HMIS-ratings (scale 0 - 4)

Health = *0

Fire = 0

Reactivity = 0



HMIS Long Term Health Hazard Substances: 13463-67-7 Titanium Dioxide

Other hazards: **Results of PBT and vPvB assessment**
PBT: Not applicable. **vPvB:** Not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Weight (%)	PEL-OSHA mg/m ³	TLV-ACGIH mg/m ³	Carcinogen Y/N
Aluminum Oxide	1344-28-1	63-83			No
Total Dust			10	10	No
Respirable Fraction			5	5	No

*Materials are regulated under OSHA 29 CFR 1900.1200, Hazard Communication Standard.

*Source of exposure limit data: (OSHA Tables Z-1-A, Z-2, Z-3); ACGIH Threshold Limit Values.

*All ingredients are listed under TSCA.

4 FIRST AID MEASURES

Eyes: Flush eyes with lukewarm water or eyewash solution for 15 minutes, opening and closing eyelids to ensure adequate rinsing. If redness, irritation, pain, or tearing occurs, seek medical attention.



Skin:	Wash contaminated area with soap and water. Wash contaminated clothing. Seek medical attention if symptoms persist.
Inhalation:	If inhalation of high concentrations occurs, move to fresh air. If breathing has stopped, a certified professional should give CPR. Seek immediate medical attention.
Ingestion:	Do not induce vomiting unless directed by a doctor. Seek medical attention.

5 FIREFIGHTING MEASURES

Flash Point:	Not applicable.
Flammable Limits:	LEL: Not applicable. UEL: Not applicable.
Auto Ignition Temperatures:	Not applicable.
Extinguishing Media:	Use media appropriate for surrounding fire
Fire and Explosion Hazards:	Non-flammable, non-combustible. Product will not burn.
Hazardous Decomposition Products:	None.
Fire Fighting Instructions:	Firefighters should wear a NIOSH/MSHA approved full-faced self-contained breathing apparatus (SCBA) operated in positive pressure mode, and full turnout or bunker gear
NFPA Classification:	:Health: 1 Flammability: 0 Reactivity: 0

6 ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unauthorized and/or unprotected personnel. Avoid dust generation. Water mist may be added as necessary to control the level of airborne dusts. Respiratory protection for clean-up personnel depends on the level of exposure anticipated. (See Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION) Gently shovel or scoop into clean dry container for later recycling or disposal. Comply with Federal, State and Local regulations regarding reporting of spills and disposal.

7 HANDLING AND STORAGE

Handling:	:Prevent formation of dust, and avoid dust inhalation. Use only in well ventilated areas. Any deposit of dust that cannot be avoided must be regularly removed. DO NOT use compressed air or dry sweeping to remove dust from work area. Wash thoroughly with plenty of water.
Storage:	Store in dry area in closed containers. Protect from high humidity and water. Store receptacle in a well ventilated area. Store away from oxidizing agents. Store away from foodstuffs

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Under normal working conditions, below acceptable exposure guidelines, none is required. For concentrations above the PEL but less than 10X the PEL, a NIOSH/MSHA approved dust mist respirator should be worn. Appropriate respirator selection will be dependent upon the magnitude of exposure and should be selected in accordance with 29 CFR 1910.134. (See Section 2.COMPOSITION for PEL's and TWA's).
Skin Protection:	Wear protective gloves, as needed, to prevent skin contact.
Eye protection:	Wear safety glasses with side shields or goggles to prevent dust and particles from entering the eye. See OSHA 29 CFR 1910.133.



Other: Under dusty conditions, employees should wear coveralls or other suitable work clothing. Contaminated clothing must be vacuumed before removal. DO NOT REMOVE dust from clothing by blowing or shaking.

Engineering Controls: Use general ventilation. Local exhaust may be necessary for processes, which generate large quantities of airborne dust. Keep exposures below applicable OSHA PEL's and ACGIH-TLV's.

9 PHYSICAL AND CHEMICAL PROPERTIES

Formula:	Al ₂ O ₃
Boiling Point:	Not Applicable.
Melting Point:	2000°C
Specific Gravity (H₂O = 1):	3.95
Percent Volatile:	0
Evaporation Rate:	None
Solubility in Water:	Insoluble
Solubility in Alcohol:	None
pH (10% slurry):	Not applicable.
Appearance /Odor:	Black solid or powder / Odorless

10 STABILITY AND REACTIVITY

Stability: Stable under normal ambient conditions of temperature and pressure.

Reactivity/ Incompatibility: Aluminum Oxide reacts violently with chlorine trifluoride producing flames. Ethylene Oxide polymerizes violently when in contact with pure aluminum oxide. Aluminum oxide is also incompatible with hot chlorinated rubber, acids and oxidizers.

Hazardous Decomposition: Thermal decomposition products will produce aluminum oxide.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Eye: Particulate matter may cause physical injury to the eye

Skin: May cause minor irritation.

Inhalation: May cause minor transient respiratory irritation

Ingestion: Ingestion of large quantities may result in gastrointestinal irritation and eventually interference with phosphate absorption, which results in rickets

Chronic: Many studies indicate that aluminum oxide dust acts as an "inert" material when inhaled.

Subchronic: No data.

Other: Implantation of aluminum oxide into rats has resulted in tumors at the site of application. Intrapleural administration of 90mg/kg aluminum oxide has resulted in tumors of the lungs, thorax or respiratory system.

12 ECOLOGICAL INFORMATION

Aquatic Toxicity: Generally not hazardous for water.

Persistence & Degradability: Inorganic. Is not eliminable from water by means of biological cleaning processes.



Bioaccumulative Potential: Does not accumulate in organisms.

Mobility In Soil: No further relevant information available.

13 DISPOSAL CONSIDERATION

Dispose of according to applicable federal, state, and local regulations. Dispose per 40 CFR 261 and 262.

14 TRANSPORT INFORMATION

U.S. Department of Transportation (DOT): Not Classified.

IMO/IMDG CODE Classification: Not controlled under IMDG.

ICAO/IATA Classification: Not controlled under IATA.

15 REGULATORY INFORMATION

Canadian WHMIS: D2B

EPCRA Section 302 (EHSs): This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances).

CERCLA, Section 304: This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302 Table 302.4

SARA 313 Reporting Requirements: This product does not contain ingredients subject to the reporting requirements of Section 313 SARA, and Section 5607 of the Pollution Prevention Act

SARA Hazard Category: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and by definition meets the requirements of the following category: Acute Health Hazard.

16 KEY

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

DOT: Department of Transportation

IARC: International Agency for Research on Cancer

MSHA: Mine Safety and Health Administration

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

SARA: **Superfund Amendment and Reauthorization Act**

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act



DISCLAIMER:

regarding applicable regulations are provided to help users meet their regulatory obligations when using this product. Statements are not exhaustive of all potential regulatory parameters a user may be bound by and does not exempt users from ensuring their own compliance with applicable regulations regarding handling, use, and storage of the product, for which they are solely responsible.

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