



SAFETY DATA SHEET

Part No.: BAO

Released March 17, 2025

PRODUCT NAME: Broadcast Aluminum Oxide #80

SECTION 1 – IDENTIFICATION

DISTRIBUTED BY: StoneCrete Systems

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DATE: March 17, 2025

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SECTION 2 – HAZARDS IDENTIFICATION

Appearance White granules

Physical state Solid

Odor Odorless

Classification:
Combustible dust

Hazard statements:
May form combustible dust concentrations in air.

GHS-Label Elements:

Signal Word:
WARNING

Pictograms:



GHS 07

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS#	EC #	Concentration, %
Aluminum Oxide	1344-28-1	310-017-8	>99

SECTION 4 – FIRST AID MEASURES

Description of first aid measures:

- Eye Contact:** Immediately remove contact lenses if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- Skin Contact:** Brush off loose particles from skin. Clean with water and soap. Seek medical treatment in case of complaints.
- Inhalation:** Respiration of particulates is unlikely during normal usage. Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing.
- Ingestion:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.



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Most important symptoms and effects, both acute and delayed:

Symptoms: May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed:

Notes to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None

Specific hazards arising from the chemical: Dust can form an explosive mixture with air.

Explosion Data:

Sensitivity to Static Discharge AVOID GENERATING DUST. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – SPILLAGE, ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid formation of dust. Avoid breathing dust. Ensure adequate ventilation. Use personal protective equipment as required.

Environmental precautions: See Section 12 for additional Ecological Information..

Methods and materials for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Carefully sweep, scoop or vacuum and place in suitable container. Avoid generating dust or accumulating dust. Avoid dust dispersal in the air (i.e. cleaning dust surfaces with compressed air). Spilled material can be a slipping hazard. Eliminate flames, sparks, excessive temperatures and oxidizing agents. Non-sparking tools should be used.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Use only in well-ventilated areas. Avoid breathing dust. Avoid generation of dust. Avoid contact with skin and eyes. Minimize dust generation and accumulation. Ensure that dust does not accumulate on surfaces.

Conditions for safe storage: Store in closed, properly labeled containers in a cool, ventilated area. Do not transfer contents to bottles or other unlabeled containers.

Incompatible materials: Strong acids. Strong oxidizing agents. Strong alkalis. Keep away from heat, open flames and oxidizing agents.

SECTION 8 – EXPOSURE CONTROLS AND PROTECTION INFORMATION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum Oxide	TWA: 1 mg/m3 respirable particulate matter	TWA: 15 mg/m3 total dust TWA: 5 mg/m3 respirable fraction (vacated) TWA: 10 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction	



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Exposure Guidelines

Appropriate engineering controls

Engineering Controls: Explosion-proof general and local exhaust ventilation. Use explosion proof electrical equipment for very high dust levels. Ensure ventilation and dust-handling systems prevent the escape of dust into work areas and there is no leakage from equipment. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment:

Personal protective equipment:

Eye/face protection:

Follow relevant national guidelines concerning the use of protective eyewear. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin/body protection:

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388. Gloves are advised for repeated or prolonged contact. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory protection:

Nuisance dust mask 3M type 8710 or equivalent. (Recommended). Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Conditions:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid close or long-term contact with the skin. Avoid breathing dust.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Appearance:	White granules
Color:	White
Odor:	Odorless
Odor threshold:	Not applicable
pH:	Slightly Alkaline
Melting point/ freezing point:	2040°C / 3704°F
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not determined
Upper/ lower flammability or explosive limits:	Not available
Vapor pressure:	Not determined
Vapor density:	Not available
Relative density:	3.97 g/cm ³
Solubility (water):	Insoluble in water
Partition coefficient n-octanol/water:	Not determined
Auto-ignition temperature:	Not available
Decomposition temperature:	Not determined
Explosive properties:	Dust can form an explosive mixture with air.
Viscosity:	Not determined



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SECTION 10 –STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Prevent formation of dust.

Possibility of hazardous reactions: None under normal processing.

Incompatible materials: Strong acids. Strong oxidizing agents. Strong alkalis.

Hazardous decomposition products: Toxic metal oxide smoke.

SECTION 11 –TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact: Avoid contact with eyes.

Skin Contact: Avoid contact with skin.

Inhalation: Do not inhale.

Ingestion: May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Oxide 1344-28-1	> 5000 mg/kg (Rat)		

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document
Oral LD50 5,000.00 mg/kg

SECTION 12 –ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence/Degradability

Not determined.



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Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other adverse effects

Not determined

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Land transport, U.S. DOT:	Non-regulated
Sea transport, IMDG:	Non-regulated
Air transport, IATA/ICAO:	Non-regulated

SECTION 15 – NATIONAL REGULATIONS AND REFERENCES

TSCA	Aluminum Oxide is listed on the TSCA inventory under CAS# 1344-28-1
RCRA	Aluminum Oxide is not classified as a hazardous material under RCRA or its regulations, 40 CFR 261.
CERCLA	Aluminum Oxide is not classified as a hazardous substance under CERCLA regulations, 40 CFR 302.
SARA	Aluminum Oxide is not an extremely hazardous substance in Section 302 and is not a toxic chemical subject to the requirements of 313.

SECTION 16 – DISCLAIMER

Additional Product Information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

NFPA Health hazards - Flammability - Instability - Special hazards -

HMIS Health hazards - Flammability - Physical hazards - Personal Protection Not determine



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Date of the previous revision: New

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