

# MATERIAL SAFETY DATA SHEET (MSDS)

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## Section 1. Chemical product & company identification

PRODUCT NAME:	BROWN ALUMINIUM OXIDE
PRODUCT NAME/SYNONYMS:	BROWN FUSED ALUMINA
MOLECULAR FORMULA	Al <sub>2</sub> O <sub>3</sub>
HMIS	HEALTH 1
	FLAMMABILITY 0
	PHYSICAL HAZARD 0
	Personal Protection E

PREPARATION/REVISION DATE: 2.2010

## Section 2. Composition/information on ingredients

CHEMICAL NAME:	Aluminum Oxide (non-fibrous)
CAS NO.	1344-28-1
EINECS	215-691-6
% BY WEIGHT	95.5
OSHA PEL	Total (TWA) 15 mg/m <sup>3</sup>
	Respirable (TWA) 5 mg/m <sup>3</sup>
CHEMICAL NAME:	IMPURITIES
	SiO <sub>2</sub> + Fe <sub>3</sub> O <sub>3</sub> + Na <sub>2</sub> O + CaO + MgO + TiO <sub>2</sub>
% BY WEIGHT	< 4.5

## Section 3. Hazard Identification/Potential Health Effects

Emergency Overview: Dust irritating to eyes and respiratory tract

EYE	Mechanical eye irritant. May cause tearing and redness.
SKIN	Mechanical skin irritant. Prolonged contact may cause skin abrasion, redness, itching.
SENSITIZATION	No data available
INGESTION	May cause nausea and vomiting. No long-term health effects are anticipated.
INHALATION	Dust may be slightly irritating to respiratory tract. May cause coughing or shortness of breath.
TARGET ORGANS	Eyes, skin, respiratory system

ACUTE EFFECTS of EXPOSURE	Exposure may include persistent cough, shortness of breath.
CHRONIC EFFECTS of EXPOSURE	N/A
SIGNS & SYMPTOMS of EXPOSURE	Coughing, shortness of breath

#### Section 4. First Aid Measures

EYES	Flush eyes with large amounts of water. If signs/symptoms persist, seek medical attention.
SKIN	Wash affected area with soap and water. If signs/symptoms persist, seek medical attention.
INHALATION	Remove person to fresh air. If signs/symptoms develop, seek medical attention.
INGESTION	Ingestion is an unlikely route of exposure. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

#### Section 5. Fire Fighting Measures

COMBUSTIBLE PROPERTIES	None
EXTINGUISHING MEDIA	Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.
SPECIAL FIRE FIGHTING PROCEDURES	In fire conditions, fire-fighters should wear appropriate respiratory protection and full protective gear.
FIRE & EXPLOSION HAZARDS	Not applicable. None inherent in this product.

#### Section 6. Accidental Release Measures

PERSONAL SAFETY PRECAUTIONS	Avoid creating dust. Avoid contact with skin and eyes. Use with adequate ventilation.
ENVIRONMENTAL PRECAUTIONS	Ensure material is properly disposed of.
CLEANUP MEASURES	Collect spilled material mechanically and place in a suitable, compatible, properly labeled container. Avoid creating any dust. Ensure adequate ventilation and dispose of material in accordance with all applicable local, state and federal laws.

#### Section 7. Handling & Storage

HANDLING	Avoid contact with skin and eyes. Wash hands before eating. Prevent the formation of dust. Handle with adequate ventilation.
STORAGE	Normal Storage: Store in the original container in a cool, dry well ventilated area. Keep containers tightly sealed.

#### Section 8. Handling & Storage

ENGINEERING CONTROLS	Provide sufficient mechanical ventilation to reduce airborne concentrations and minimize exposure.
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Maintain employee exposure below applicable permissible exposure limits.

HYGIENIC MEASURES	Do not inhale dust/smoke/mist. Avoid contact with skin and eyes. Wash hands before eating.
RESPIRATORY PROTECTION	Avoid breathing dust. Assess exposure concentrations of all materials involved in the workplace. If concentrations exceed the exposure limits listed in Section 2, Exposure Guidelines, or irritation or other symptoms are experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard 149 approved respirator.
EYE PROTECTION	Avoid eye contact. To minimize the risk of injury to eyes, always wear appropriate protective safety glasses or chemical safety goggles.
SKIN PROTECTION	Avoid skin contact. Wear appropriate protective clothing to minimize risk of injury to skin from contact with dust or physical abrasion.

### Section 9. Physical & Chemical Properties

FORMULA	Al <sub>2</sub> O <sub>3</sub>
PHYSICAL STATE	Solid-granular
BOILING POINT	N/A
MELTING POINT	2100° C
pH at 20°	N/A
APPEARANCE	Dark brown
ODOR	Odorless
FLASH POINT	N/A
DECOMPOSITION TEMPERATURE	N/A
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
EXPLOSIVE PROPERTIES	None
SOLUBILITY	Insoluble
OXIDIZING PROPERTIES	N/A
SPECIFIC GRAVITY	3.85
BULK DENSITY	N/A

### Section 10. Stability & Reactivity

THERMAL DECOMPOSITION	N/A
INCOMPATIBILITY	N/A
CONDITIONS TO AVOID	None known
HAZARDOUS DECOMPOSITION PRODUCTS	None expected
DANGEROUS REACTIONS	None known

HAZARDOUS POLYMERIZATION Will not occur

### Section 11. Toxicological Information

CAS # 1344-28-1

COMPONENT ANALYSIS LD50/LC50

CARCINOGENICITY

EPIDEMIOLOGY

Data Not Available

TERATOGENICITY

NEUROTOXICITY

MUTAGENICITY

REPRODUCTIVE EFFECTS

### Section 12. Ecological Information

ECOTOXICITY

Not Available

### Section 13. Disposal Considerations

Solid or chemical waste generators must determine whether a discarded waste is classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local waste regulations to ensure complete and accurate classification.

### Section 14. Transportation Information

DOT

This product is not regulated by USDOT as a Hazardous Material (49 CFR 172.101). No UN code assigned. No placard required for transportation.

IMDG

Not regulated as a Hazardous Material.

ACAO/IATA

Not regulated as a Hazardous Material.

EU (ADR, RID)

Not regulated as a Hazardous Material.

### Section 15. Regulatory Information

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.