



ASCENT SUN HOLDINGS LIMITED

## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product & Company Identification

Chemical Name	Product Name/Synonyms	Molecular Formula
Brown Aluminum Oxide	<b>Bonded Abrasive:</b> AHMCF,AE-10,A-10B,AE-17H,AE-17T,AE-17HM,AE-20,AE-20B <b>Coated Abrasive:</b> AHMCP,AP-17,AP-17H <b>Blasting Media:</b> A-10B,AE-10B,A-20B,AE-20	Al <sub>2</sub> O <sub>3</sub>

**Company Name:** ASCENT SUN HOLDINGS LIMITED

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HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
Personal Protection	E

### 2. Composition/Information on Ingredients

Chemical Name	CAS No.	EINECS	% by Weight	OSHA PEL (Exposure Guidelines)	
				Total (TWA)	Respirable
Aluminum Oxide <sup>1</sup>	1344-28-1	215-691-6	92.0 – 99.0	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Titanium Dioxide	13463-67-7	236-675-5	1.0 – 4.0		
Silicon Dioxide <sup>2</sup>	7631-86-9	231-545-4	0.2 – 1.7	<u>80 mg/m<sup>3</sup></u> % SiO <sub>2</sub>	
Iron Oxide	1309-37-1	215-168-2	0.1 – 1.5	10 mg/m <sup>3</sup>	
Impurities	Other total oxides (trace amounts)		< 1.0 %		
<sup>1</sup> Non-fibrous <sup>2</sup> Amorphous					

### 3. Hazard Identification/Potential Health Effects

**Emergency Overview:** Dust irritating to eyes and respiratory tract.

#### ROUTES OF ENTRY & SYMPTOMS

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.

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<b>TARGET ORGANS</b>	Eyes, skin, respiratory system.
<b>ACUTE EFFECTS of EXPOSURE</b>	Exposure may include persistent cough, shortness of breath.
<b>CHRONIC EFFECTS of EXPOSURE</b>	N/A
<b>SIGNS &amp; SYMPTOMS of EXPOSURE</b>	Coughing, shortness of breath

#### 4. First Aid Measures

<b>EYES</b>	Flush eyes with large amounts of water. If signs/symptoms persist, seek medical attention.
<b>SKIN</b>	Wash affected area with soap and water. If signs/symptoms persist, seek medical attention.
<b>INHALATION</b>	Remove person to fresh air. If signs/symptoms develop, seek medical attention.
<b>INGESTION</b>	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.

#### 5. Fire Fighting Measures

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

#### 6. Accidental Release Measures

<b>PERSONAL SAFETY PRECAUTIONS</b>	Avoid creating dust. Avoid contact with skin and eyes. Use with adequate ventilation.
<b>ENVIRONMENTAL PRECAUTIONS</b>	Ensure material is properly disposed of.
<b>CLEANUP MEASURES</b>	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.

#### 7. Handling & Storage

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

#### 8. Exposure Controls & Personal Controls

<b>ENGINEERING CONTROLS</b>	Provide sufficient mechanical ventilation to reduce airborne concentrations and minimize exposure. Maintain employee exposure below applicable permissible exposure limits.
<b>HYGIENIC MEASURES</b>	Do not inhale dust/smoke/mist. Avoid contact with skin and eyes. Wash hands before eating.
<b>RESPIRATORY</b>	Avoid breathing dust. Assess exposure concentrations of all materials involved

<b>PROTECTION</b>	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.
<b>EYE PROTECTION</b>	Avoid eye contact. To minimize the risk of injury to eyes, always wear appropriate protective safety glasses or chemical safety goggles.
<b>SKIN PROTECTION</b>	Avoid skin contact. Wear appropriate protective clothing to minimize risk of injury to skin from contact with dust or physical abrasion.

## 9. Physical & Chemical Properties

<b>FORMULA</b>	Al <sub>2</sub> O <sub>3</sub>	<b>APPEARANCE</b>	Brown to Black
<b>PHYSICAL STATE</b>	Solid-granular	<b>ODOR</b>	Odorless
<b>BOILING POINT</b>	N/A	<b>FLASH POINT</b>	N/A
<b>MELTING POINT</b>	N/A	<b>DECOMPOSITION TEMPERATURE</b>	N/A
<b>pH at 20°</b>	N/A	<b>VAPOR PRESSURE</b>	N/A
<b>VAPOR DENSITY</b>	N/A	<b>OXIDIZING PROPERTIES</b>	N/A
<b>EXPLOSIVE PROPERTIES</b>	None	<b>SPECIFIC GRAVITY</b>	3.95
<b>SOLUBILITY</b>	Insoluble	<b>BULK DENSITY</b>	N/A

## 10. Stability & Reactivity

<b>CHEMICAL STABILITY</b>	Stable
<b>THERMAL DECOMPOSITION</b>	N/A
<b>INCOMPATIBILITY</b>	N/A
<b>CONDITIONS TO AVOID</b>	None known
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	N/A
<b>DANGEROUS REACTIONS</b>	None known
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur

## 11. Toxicological Information

<b>CAS # 1344-28-1</b>	
<b>COMPONENT ANALYSIS</b>	Data Not Available
<b>LD50/LC50</b>	
<b>CARCINOGENICITY</b>	
<b>EPIDEMIOLOGY</b>	
<b>TERATOGENICITY</b>	
<b>NEUROTOXICITY</b>	
<b>MUTAGENICITY</b>	
<b>REPRODUCTIVE EFFECTS</b>	

## 12. Ecological Information

<b>ECOTOXICITY</b>	Not Available
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## 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
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generators must consult state and local waste regulations to ensure complete and accurate classification.

#### 14. Transportation Information

<b>U.S. DOT</b>	This product is not regulated by USDOT as a Hazardous Material (49 CFR 172.101). No UN code assigned. No placard required for transportation.
<b>IMDG</b>	Not regulated as a Hazardous Material.
<b>ACAO/IATA</b>	Not regulated as a Hazardous Material.
<b>EU (ADR, RID)</b>	Not regulated as a Hazardous Material.

#### 15. Regulatory Information

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

Prepared by Gao Yiping, Environmental, Health and Safety Manager

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