

# SAFETY DATA SHEET - ALUMINIUM OXIDE

# 1. IDENTIFCATION OF SUBSTANCE/PREPARATION & COMPANY

	Products:	Wet Ground Alumina, Alum	ina powder	
REACH Key Notes:	Registration No.(	01-2113952924835006		
Application of Substance:	Ceramics, refracto reagents	ory, abrasives, polishing past	es, fillers, glass, health care,	personal care, chemical
Company:	Furlong Mills Ltd, Furlong Lane, Burslem, Stoke on Trent, Staffordshire, ST6 3LE			
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# 2. HAZARDS IDENTIFICATION

Not classified as hazardous

No significant adverse health effects are to be expected from either single or repeated exposures provided that dust inhalation is controlled. Prolonged or excessive contact may cause irritation of the respiratory tract.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Aluminium Oxide: CAS No. 1344-28-1

Not classified

Precautionary Statements (recommended):

P261	-	Avoid breathing dust
P281	-	Wear eye protection
P305,338,351	-	In case of inadequate ventilation wear respiratory protection
P302, 352	-	If on skin wash with soap and water

## 4. FIRST AID MEASURES

Eyes -	Rinse immediately with plenty of water.	If irritation persists, seek medical advice.
Skin -	Wash with soap and water.	

Ingestion - Wash out mouth, drink plenty of water. Seek medical advice if necessary

Inhalation - Remove to fresh air and seek medical advice if necessary.

# 5. FIRE FIGHTING MEASURES

This material is non-combustible . If it is involved in a fire, use an extinguisher suitable for the surrounding fire.

### 6. ACCIDENTAL RELEASE MEASURES

Eye protection should be worn to prevent splashes to eyes.

Spillages of slop material should be removed with copious amounts of water to factory drainage system. Spillages of semi-dry or dry product should be removed by vacuum methods.

### 7. HANDLING AND STORAGE

Slop material should be agitated during storage to prevent settling, dried material should be kept in closed bags/containers. Spillage should be prevented during transfer operations and precautions taken to prevent splashing to body and eyes. When handling all materials observe good standards of industrial hygiene.

Avoid swallowing, inhaling dust and eye skin contact through the use of personal protective equipment. Where dry material has to be handled, dust masks with normal protection factor (NPF) of 10 (EN149) should be worn.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Dry materials should be used under conditions of local exhaust ventilation to avoid inhalation of dust. Where it is not possible, an appropriate dust mask must be worn.

Other than suitable protective clothing, no special controls are needed in the case of slop or plastic materials other than cleaning any spillages before they dry out. Goggles may be used to prevent possible eye irritation and gloves if skin irritation is likely.

WORKPLACE EXPOSURE LIMIT (WEL) - EH40: Total Inhalable Dust: 10 mg/m<sup>3</sup> 8hrTWA

Respirable Dust : 4 mg/m<sup>3</sup> 8hrTWA

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		As a whit	e sl	urry or dry powder
pH:		7 - 9		
Melting Point:		2050ºC r	nin	(boiling point 3530°C
Flammability:		Not flamn	nabl	e
Oxidising Properties:	Not oxidizing			
Solubility:	Insoluble in water			

#### 10. STABILITY AND REACTIVITY

No known hazardous reactions or decomposition products within the sphere of its intended use as ceramic material.

#### 11. TOXICOLOGICAL INFORMATION

Little or no evidence of adverse effects from ingestion, skin or eye contact.

No clear evidence of lung problems associated with inhalation of alumina particles.

In animal studies no evidence that absorption from inhaled particles cause systemic effects and any link with Alzheimer's disease is considered remote.

Therefore provided that inhalation is controlled within WEL (Section 8) no adverse human effects are anticipated.

### 12. ECOLOGICAL INFORMATION

Aluminium Oxide has a very low solubility in water and will not further oxidise. Small amounts in water are unlikely to present a threat to aquatic life.

Large aquatic discharges may lead to localized adverse physical effects to aquatic organisms due to the suspension of the material in water and silting.

### 13. DISPOSAL INFORMATION

Material should be treated as industrial waste and the procedures laid down in the Duty of Care - Environmental Protection Act observed. Consult Local Authority if necessary.

### 14. TRANSPORT INFORMATION

No special precautions. International regulation on the transport of dangerous goods (IMDG, IATA, ADR) not applicable.

# 15. REGULATORY INFORMATION

Classification for Supply:

Slop Material	<ul> <li>Unclassified</li> </ul>
Dry Material	- Unclassified

References:

EH40 - Workplace Exposure Limits 2005
Guidance Notes EH44 - Dust General Principles of Protection
HS (G)53 - Respiratory Protective Equipment
COSSH ACOP41 - Pottery Production Guidance Note EH59
REACH Regulation (EC) No 1907/2006 - Annex V 7
CLP Regulation (EC) No1272/2008

### 16. OTHER INFORMATION

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of work place risk associated with product(s) used as required under any other Health and Safety Regulation.

As a result of the hazard assessment and PBT/vPvB assessment it is found that substance aluminium oxide (CAS #1334-28-1) does not meet the criteria for classification as hazardous (according to Directives 67/548/EEC and 1272/2008/EC) nor is it considered to be a PBT/vPvB. An exposure assessment and the subsequent step of risk classification is not required.

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