

◆ *Carbon Enterprises Ltd.*

**MATERIAL SAFETY DATA SHEET**

**LZ SERIES CALCINED ALUMINA**

**1. PRODUCT AND COMPANY IDENTIFICATION**

Identification	Calcined alumina
Purpose	Abrasive/polishing agent
Company	Carbon Enterprises Ltd. 10 Orchard Way, Esher, KT10 9DY, United Kingdom
Telephone	+44 1372 800 481
Fax	+44 1372 467 043
Email	<a href="mailto:ca@carbonenterprises.co.uk">ca@carbonenterprises.co.uk</a>

**2. HAZARDS IDENTIFICATION**

Identification	Non combustible
Eye contact	May cause irritation
Skin contact	May cause irritation
Inhalation	May cause irritation of the respiratory tract
Ingestion	May cause irritation to mucous membranes
Classification	Non dangerous
Aggravated medical conditions	Asthma, lung irritation, dermatitis

**3. COMPOSITION / INGREDIENTS**

Chemical name	Aluminium oxide
CAS-No.	1344-28-1
EINECS	215-691-6
REACH	01-2119529248-35-0024

**4. FIRST AID MEASURES**

Skin contact	Wash off at once with soap and water. Remove all contaminated clothes and shoes. If condition persists call a doctor.
Eye contact	Rinse with plenty of water. Remove any contact lenses and continue rinsing. Do not rub the eyes. If condition persists call a doctor.

#### 4. (cont)

Inhalation	Move to open/fresh uncontaminated air. Give bottled oxygen in case of breathing difficulties. If victim is not breathing give artificial respiration.
Ingestion	If condition persists call a doctor. Wash mouth out with water. Do not induce vomiting without medical advice.

#### 5. FIRE FIGHTING MEASURES

Extinguishing	The product does not burn
Protective equipment	Sealed breathing apparatus and protective suit

#### 6. ACCIDENTAL RELEASE MATERIALS

Personal	Wear protective equipment Avoid airborne dust
Environmental	No special measures required
Clean up	Collect by mechanical means and put in a suitable container for disposal

#### 7. HANDLING AND STORAGE

<b>Handling</b>	
Measures/precautions	None
<b>Storage</b>	
Measures/precautions	Store in a dry place
Incompatible products	None known
Specific use	None

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	Aluminium oxide
Weight	>99%
OSHA PEL	=15 mg/m <sup>3</sup> TWA total dust =15 mg/m <sup>3</sup> TWA respirable fraction
ACGIH TWA	10mg/m <sup>3</sup> TWA particulate matter containing no asbestos and <1% crystalline silica
MEL	Not applicable
Germany OEL (TWA)	3 mg/m <sup>3</sup>

## 8. (cont)

<b>Protective equipment</b>	6 mg/m <sup>3</sup> (a)
Respiratory protection	Where there is poor ventilation wear suitable respiratory equipment In conditions where there is exposure to concentrations above exposure limit appropriate respirators must be used
Hand protection	Suitable protective gloves must be worn
Eye/Face protection	Use well fitting safety goggles Use safety glasses with eye shields
Skin protection	None special required
General hygiene	Do not eat drink or smoke Clean all equipment clothing and work area regularly
Environmental	No info available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	White
Odour	None
pH	8 – 10
Flash point	NA
Autoignition temp.	Does not ignite
Boiling point	Undetermined
Melting point	1600 – 2050 degrees centigrade
Solubility	Insoluble
Density	2.7 – 3.94 g/cm <sup>3</sup>
Bulk density	350 – 1250 kg/m <sup>3</sup>
Explosion risk	None

## 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions
Conditions to avoid	None if stored and used as advised
Incompatible materials	No info available
Hazardous decomposition	NA
Hazardous polymerisation	NA
Hazardous reactions	None under normal use

## 11. TOXICOLOGICAL INFORMATION

### Local effects

Skin irritation	May cause irritation and/or dermatitis
Eye irritation	Contact may cause irritation
Inhalation	May cause irritation of the respiratory tract
Ingestion	May cause irritation to mucous membranes

## 11. (cont)

### Long term effects

Skin contact	No info available
Eye contact	No info available
Inhalation	No info available
Ingestion	No info available

## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects	Not water endangering (WGK:nwg)
Additional Info	No info available
Chemical name	Aluminium oxide
CAS-No	1344-28-1
Weight	>99
WGK classification	nwg

## 13. DISPOSAL CONSIDERATIONS

Waste disposal	In accordance with local regulations
Contaminated packaging	Empty packaging to be taken for recycling recovery or disposal
Further info	Can be landfilled in line with local regulations

## 14. TRANSPORT INFORMATION

DOT	Not regulated
ICAO	Not regulated
IATA	Not regulated
RID	Not regulated
ADR	Not regulated

## 15. REGULATORY INFORMATION

Safety combination phrases	NA
Risk combination phrases	NA
Symbols	NA

### International inventories

Chemical name	Aluminium oxide
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**15. (cont)**

TSCA	Present
EINECS	215-691-6
CAS	1344-28-1
REACH	01-2119529248-35-0024
ENCS	1-23
IECSC	Present
KECL	KE-01012
PICCS	Present
AICS	Present

**16. OTHER INFORMATION**

None