



# *Carbon Enterprises Ltd.*

## **MATERIAL SAFETY DATA SHEET**

L, LK AND LRK SERIES CALCINED ALUMINA

Revised 17/01/25

### **1. PRODUCT AND COMPANY IDENTIFICATION**

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Identification | Calcined alumina                                                           |
| Purpose        | Abrasive/polishing agent                                                   |
| Company        | Carbon Enterprises Ltd. 10 Orchard Way, Esher,<br>KT10 9DY, United Kingdom |
| Telephone      | +44 1372 475945                                                            |
| Email          | ce@carbonenterprises.co.uk                                                 |

### **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.<br>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.<br>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.<br>If condition persists call a doctor. |
| Ingestion  | Wash mouth out with water.<br>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<br>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<br>=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)

### Protective equipment

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

Environmental

Clean all equipment clothing and work area regularly

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<br>(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 |
|---------------|-----------------|

**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