



Carbon Enterprises Ltd.

MATERIAL SAFETY DATA SHEET

AGGLOMERATED 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, 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. 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

Handling	
Measures/precautions	None
Storage	
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 ³ TWA total dust =15 mg/m ³ TWA respirable fraction
ACGIH TWA	10mg/m ³ TWA particulate matter containing no asbestos and <1% crystalline silica
MEL	Not applicable
Germany OEL (TWA)	3 mg/m ³

8. (cont)

Protective equipment

6 mg/m³ (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/cm³

Bulk density

350 – 1250 kg/m³

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