

Aluminium Oxide Powder**1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING****Product Identifiers**

Product Name: **Aluminium Oxide Powder**
Alternative names: Alumina powder
CAS number: 1344-28-1
EC number: 215-691-6
Product code: OCON-007 to OCON-022, OCON 030

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Abrasive lapping or polishing powder.
Uses advised against: This product is to be used only for the purpose stated above.

Details of the supplier of the safety data sheet

Manufacturer: Logitech Ltd
Erskine Ferry Road
Old Kilpatrick
Glasgow
G60 5EU
Scotland, UK

Telephone +44 (0) 1389 875444
E-mail coshh.info@logitech.uk.com

Emergency telephone number

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

This material is a substance

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:

Not classified as hazardous

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Not classified as dangerous

Label elements**Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)**

No labelling required under these regulations

Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

No labelling required under these regulations

Other hazards

High levels of dust may be irritating to the respiratory tract or may cause skin irritation by mechanical action.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a substance.

There are no hazardous substances present at or above threshold limits:

Component	CAS No. Number.	EC No.	%
Aluminium Oxide	1344-28-1		>99
<i>Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:</i> Not classified as dangerous			
<i>Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:</i> Not classified as dangerous			

4. FIRST AID MEASURES

Description of first aid measures

General advice

Remove from source of exposure. This product is not chemically reactive. Any health effects from exposure are likely to be due to mechanical action.

Inhalation.

Move person to fresh air, blow nose thoroughly. If person experiences irritation or difficulty breathing seek medical advice

Ingestion

Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or the person feels unwell.

Skin contact

Wash area with soap and water then rinse thoroughly with water. If person experiences continued irritation seek medical advice

Eye contact

Remove contact lenses if present and easy to do. Flush eyes thoroughly with large amounts of water, holding eyelids open.

Seek medical advice in the event of continued irritation or other complaints.

Most important symptoms and effects, both acute and delayed

Dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Exposure to dust generated from processing the base material or coatings may present additional health hazards.

Indication of any immediate medical attention and special treatment needed

None

5. FIRE-FIGHTING MEASURES

Extinguishing media

Product is not flammable.

Use extinguishing medium appropriate to surroundings

Special hazards arising from the substances or mixture

The product will not produce chemically hazardous substances in a fire situation.

Advice for fire fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of dust (may cause irritation by mechanical action)

Environmental precautions

Avoid contamination to water supplies and environmental releases. Report spills as required to the authorities.

Methods and material for containment and cleaning up

Dampen spillage with water to minimise dust generation/carefully collect dry material avoiding the creation of dust, then place in a suitable container for disposal.

Remove final residues with wet cloths or rinse to foul sewer with water

Reference to any other sections

See section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling:

Take precautions to minimise the generation of airborne dust.

Provide adequate ventilation

Avoid breathing airborne dust.

Minimise skin and eye contact to prevent irritation by mechanical action.

Wash thoroughly after handling

Conditions for safe storage, including any incompatibilities

No special requirements

Specific end use(s)

Industrial uses: Abrasive

Professional uses: None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits:

The UK Workplace Exposure Limit (WEL) for general (nuisance) dust applies to this material:

Inhalable dust LTEL 10 mg/m³ (8 hr TWA)

Respirable dust LTEL 4 mg/m³ (8 hr TWA)

Other exposure limits may be specified in individual countries. Check national legislation for appropriate exposure limits.

Exposure should be controlled to avoid exceeding the specified limits.

Derived No Effect Level (DNEL)

Long term Oral Toxicity – 6.2 mg/kg

Long term Inhalation Toxicity – 15.6mg/m³

Predicted No Effect Concentration (PNEC) No information available

Exposure controls

Appropriate engineering controls

Use ventilation (natural or forced) or extraction to reduce dust exposure to below the exposure limit.

Personal protective equipment

If the exposure limit is exceeded or users experience irritation or discomfort then the use of PPE may be necessary:

Eye / face protection

EN approved safety glasses with side shields or (preferred) box goggles.

Skin protection:

Wear any gloves that provide a barrier to powder contact. Replace gloves before the inner surface becomes contaminated with the powder.

Wear long sleeved clothing.

Respiratory protection:

Not necessary unless workplace concentrations of hazardous constituents exceed the exposure limits. If exposure levels are excessive and irritation occurs wear an approved respirator based on contaminant type, form and concentration.

The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Appearance:	White powder
Odour:	None
Odour threshold:	not applicable
pH:	not applicable
Melting point:	2050 °C
Boiling point:	2977 °C
Flash point:	not applicable – non flammable
Evaporation rate	not applicable
Flammability	not applicable
Upper/lower explosive limits	not applicable – non flammable / non explosive
Vapour pressure	information not available
Vapour density	information not available
Density	information not available
Solubility in water:	Insoluble in water.
Solubility in other	
Ingredients:	information not available
Partition coefficient	
Octanol/water:	information not available
Auto-ignition temperature	not applicable – non flammable / non explosive
Decomposition temperature	not applicable
Viscosity	information not available
Explosion properties:	not applicable – non flammable / non explosive
Oxidising properties:	Not oxidising.

Other information

No additional data available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive to materials commonly used in the transportation, handling and storage.

Chemical stability

Stable at room temperature.

Possibility of hazardous reactions

A slight rise in temperature may result from contact with water

Conditions to avoid

None identified

Incompatible materials

None identified

Hazardous decomposition products

None identified

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	oral rat LD50>10000 mg/kg; LC50 Inhalation rat>2.3mg/L/4 hr
Skin corrosion/irritation	not a skin irritant in animal studies skin contact may result in abrasive injury
Serious eye damage/ eye irritation	not an eye irritant in animal studies eye contact may result in abrasive injury and irritation
Respiratory or skin sensitisation	not expected based on human experience
Germ cell mutagenicity	no evidence of mutagenic activity
Carcinogenicity	no evidence of carcinogenicity.
Reproductive toxicity	no data available.

Specific target organ toxicity – Single exposure	no data available.
Specific target organ toxicity – Repeated exposure	no evidence of exposure to aluminium compounds associated with significant adverse respiratory effects.
Aspiration hazard	no data available
Further information	
See RTECS entry for complete information.	

12. ECOLOGICAL INFORMATION

Toxicity

Acute toxicity for fish	no data available
Acute toxicity for crustacea	no data available
Acute toxicity for algae	no data available

Persistence and biodegradability

Biodegradation is not applicable to inorganic substances.

Bioaccumulative potential

Data not available. Not expected to be bioaccumulative.

Mobility in Soil

Data not available.

Results of PBT and vPvB assessment

No components are classified as PBT or vPvB.

Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Dispose of product as non-hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.
The European Waste Code will depend upon the use of the product and cannot be specified here.

Packaging

Clean or contaminated packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue).

14. TRANSPORT INFORMATION

UN number

Not a dangerous good

UN proper shipping name

Not a dangerous good

Transport hazard class(s)

Not a dangerous good

Packing group

Not a dangerous good

Environmental hazards

Not a dangerous good

Special precautions for user

None identified

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

No information available

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation

EU Directive 67/548/EEC ('Dangerous Substances Directive')

Regulation (EC) No 1907/2006 ('REACH')

Regulation (EU) No 453/2010.

Safety, health and environmental regulations/legislation specific for the substance or mixture

None identified

Chemical safety assessment

A Chemical Safety Assessment has not been undertaken for this product.

16. OTHER INFORMATION

Changes from previous version (version 3):

- | | | |
|----|------------|---|
| a) | Section 4 | Amended First Aid information |
| b) | Section 5 | Amended Fire-fighting measures |
| c) | Section 6 | Amended Accidental Release procedures |
| d) | Section 8 | Amended information on DNEL |
| e) | Section 9 | Amended boiling point figure |
| f) | Section 10 | Amended possibility of hazardous reaction |
| g) | Section 11 | Additional Toxicology information |
| h) | Section 12 | Amended Ecological information |

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.