

# EC safety data sheet

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Trade name                      **Aluminiumoxid**

first issued  
status  
date of printing

22.09.1995  
10.07.2003  
10.07.2003

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## 1. Identification of the substance / preparation and company

**Trade name:**  
**Aluminiumoxid**

**Use:**  
Absorbing medium for technical applications

**Packing:**  
1.3 kg                      Part. - No. 854 10

### Identification of the manufacturer / supplier

Adress supplier

Leybold Vakuum GmbH  
P.O. Box 510760  
D-50943 Köln  
Phone ++49 (0)221-347-0  
Fax ++49 (0)221-347-1250

Emergency telephone number:  
++49 (0)221-347-0

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## 2. Composition / information on ingredients

**Chemical characterization**  
Aluminium oxide

### Dangerous Components:

Components	EINECS	Symbol(s)	R-phrases	Concentration
Aluminium oxide	215-691-6			

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## 3. Hazards identification

**Hazards symbols:**  
None.

**R phrases:**  
None.

**Particular information pertaining specific risk for human / environment:**  
Not applicable.

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### 4. First aid measures

**General information:**

None.

**After inhalation:**

If large amounts have been inhaled, seek medical advice.

**After skin contact:**

Wash off with soap and plenty of water.

**After eye contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**After ingestion:**

Drink plenty of water. Rinse mouth. Let person, if fully conscious, vomit without introducing vomiting.

**Notes to physician**

Treatment : none

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### 5. Fire fighting measures

**Suitable extinguishing media:**

The product itself does not burn. Use extinguishing measures appropriate to the environment.

**Extinguishing media that must not be used for safety reasons:**

Do not use a solid water stream as it may scatter and spread fire.

**Special exposure hazards:**

None.

**Special protective equipment for firefighting:**

None.

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### 6. Accidental release measures

**Personal precautions:**

None.

**Environmental precautions:**

None.

**Methods for cleaning up/taking up:**

Take up uncontaminated material and pass on for further processing. Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with legal regulations.

**Additional advice:**

Avoid dust formation.

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### 7. Handling and storage

#### Handling

**Advice on safe handling:**

Avoid formation of dust and aerosols. Handle with care to avoid abrasion or breakage.

**Advice on protection against fire and explosion:**

No special precautions required.

#### Storage

**Requirements for storage rooms and vessels:**

Keep container tightly closed and dry.

**Further information on storage conditions:**

German Storage Class 10 to 13

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### 8. Exposure controls / personal protection

**Additional technical information on the plant:**

In case of formation of dust: Local exhaust

**Exposure limit values:**

Components	CAS-No.	Value	Basis / Remarks
limiting value of inert dust (breathable content)		10 mg/m <sup>3</sup>	TRGS 900 September 2001
ALUMINIUM OXIDE	1344-28-1	6 mg/m <sup>3</sup>	TRGS 900 inhalable dust Oct, 1998

**Personal protective equipment:**

**Respiratory protection:**

Effective dust mask.

**Hand protection:**

Chemical-resistant protective gloves according to EN 374, EN 388, EN 420

**Eye protection:**

Safety glasses

**Skin protection:**

None.

**General protective and hygiene measures**

Follow the usual precautions required when handling chemicals.

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### 9. Physical and chemical properties

#### Erscheinungsbild

Form                      grains or spheres  
Colour                    white  
Odour                     none

Important health, safety and environmental information

pH-value	7-8		Aqueous suspension
Changes in physical state:			
Melting Point	2.000 - 2.030	°C	
Boiling point	not available		
Flash Point	not applicable	°C	DIN ISO 2592
Ignition:			
Explosion limits			
Explosion lower limit	not applicable		
Explosion upper limit	not applicable		
Ignition temperature	not applicable		
vapour pressure (20°C)	not available	mbar	
Bulk density	770	kg/m <sup>3</sup>	
Solubility:			
Solubility in water (20°C)	insoluble		

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### 10. Stability and reactivity

#### Materials to avoid:

highly halogenated compounds, hydrogen halides, Nitrates

#### Hazardous reactions (Conditions to avoid)

None known

#### Hazardous decomposition products:

No decomposition if stored and applied as directed.

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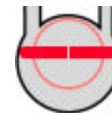
### 11. Toxicological information

#### Acute toxicity

#### Acute oral toxicity (Aluminium Oxide)

LD50	10.000	mg/kg
Species	rat	





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### Irritation, Sensitization, Other data Toxicology

#### (Skin-) Irritation:

rabbit

Result: No skin irritation

#### Eye irritation:

rabbit

Result: No eye irritation

#### Sensitization:

No data available.

#### Repeated dose toxicity:

No data available

#### Human experience:

Under normal conditions of industrial hygiene no negative effects are known so far. Due to dust raising, light irritation of eyes and/or mucous membranes is possible.

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## 12. Ecological information

#### Decomposition:

Product has a low water solubility. In sewage water plants, the product can be separated by mechanical means. The methods for determining the biological degradability are not applicable to inorganic substances.

#### Distribution to environmental compartments:

No data available

#### Ecotoxicity effects

#### Toxicity to bacteria:

Method: Ames test

not mutagen

#### Ecotoxicity:

No data available

#### Water contaminating class:

(Selbsteinstufung nach VwVwS-Konzept)

NWG not water endangering

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## 13. Disposal considerations

#### Product:

Refer to manufacturer/supplier for information on recovery/recycling. Can be disposed of as solid waste or burned in a suitable installation subject to the Environmental Protection (Duty of Care) Regulations 1991. Contact the proper local authorities.

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### Disposal key number (EAK):

15 02 - Absorbents, filter materials, wiping cloths and protective clothing.

### Contaminated packaging:

Dispose of as unused product.

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## 14. Transport information

### Land transport:

Not classified as dangerous in the meaning of transport regulations.

### Sea transport:

Not classified as dangerous in the meaning of transport regulations.

### Air transport:

Not classified as dangerous in the meaning of transport regulations.

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## 15. Regulatory information

### Labelling in accordance with EC directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

### Hazard symbols:

None.

### R-phrases:

None.

### S-phrases:

S22 - Do not breathe dust (recommendation)

### Other information:

Follow the usual precautions required when handling chemicals.

### Notification status:

Preparation

Components / CAS-No.	Registered in / No.	Status
ALUMINIUM OXIDE 1344-28-1	AICS	listed
	DSL	listed
	INV (CN)	listed
	EINECS 215-691-6	listed
	ENCS (JP) (1)-23	listed
	KECI (KR) KE-01012	listed
	PICCS (PH)	listed
TSCA	listed	



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**Water contaminating class:**  
(Selbsteinstufung nach VwVwS-Konzept)

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### 16. Other information

LEYBOLD Vakuum GmbH is not the manufacturer. The above information is based on the information by our suppliers. We ourselves have not checked this information. Any liability which exceeds our existing liabilities is excluded by us.

Please note, that the information provided in the safety data sheets refers only to the product which is indicated. This information may not apply when using the product together with other materials or when processing it.

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Information provided by:

Phone: ++49 (0)221-347-1217  
Fax ++49 (0)221-347-31217

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