



# White corundum

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## 1 – Identification of the substance

**Product Name:** White corundum  
**Use:** Abrasive applications, refractories and ceramic applications, production of wear-resistant materials, surface treatment, fillers.

## 2 – Composition / Information on ingredients

### Chemical characterization (substance):

**Definition according to EC directive:** Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>)  
**CAS n°:** 1344-28-1  
**EINECS n°:** 215-691-6  
**REACH reg. n°:** 01-2119529248-35-0034

## 3 – Hazards Identification

### **Critical hazards to man and environment**

**Classification EC 1272/2008 (CLP)** Not classified as hazardous goods.  
**EC 67/548/EEC or 1999/45/EC** No hazards characteristics.  
 No R- or H-Phrases.

## 4 – First Aid Measures

**Inhalation:** Move to fresh air, consult a physician if necessary.  
**Skin contact:** Mechanical (dry) removal. Subsequent rinsing with water.  
**Eye contact:** Flush with plenty of water. Seek medical advice if irritation persists.  
**Ingestion:** Rinse out mouth and give water to drink. Seek medical advice.

## 5 – Fire Fighting Measures

<b>Suitable extinguishing media:</b>	Not inflammable. Use extinguishing measures appropriate to the source of the fire.
<b>Extinguishing media which must not be used for safety reasons:</b>	None known.
<b>Special exposure hazards arising from the substance itself, combustion products resulting gazes:</b>	None known.
<b>Special protective equipment:</b>	Not applicable.

## 6 – Accidental Release Measures

<b>Personal precautions:</b>	Avoid dust formation. In case of exposure to high levels of airborne dust, wear personal protective equipment (see also section 8).
<b>Environmental precautions:</b>	No special measures required.
<b>Method for cleaning up:</b>	Pick up mechanically and dispose of in accordance regulations.

## 7- Handling and Storage

### Handling:

<b>Precautions for safe handling:</b>	Avoid dust formation.
<b>Precautions against fire and explosion:</b>	No danger of fire and dust explosion.

### Storage:

<b>Conditions of storage rooms and vessels:</b>	No special precautionary measures.
<b>Advice of storage of incompatible materials:</b>	None.

## 8 – Exposure Controls / Personal Protection

<b>Exposure limit values</b>	Not applicable.
<b>Components with specific control parameters as limit values:</b>	Observe the local bylaws in terms of fine dust (e.g.: OSHA-PEL value 15 mg/m <sup>3</sup> total dust; 5 mg/m <sup>3</sup> for respirable dust; TRGS 900 10 mg/m <sup>3</sup> respirable; 3 mg/m <sup>3</sup> alveolar).
<b>Exposure controls</b>	
<b>Occupational exposure controls:</b>	
<b>Respiratory protection:</b>	Avoid inhaling dust. Fine dust mask with category P2 filter must be used if fine dust limits are exceeded.
<b>Hand protection:</b>	Protective gloves are recommended.
<b>Eye protection:</b>	Safety glasses are recommended.
<b>General protection and hygiene measures:</b>	Observe standard industrial hygiene practice.
<b>Environmental exposure controls:</b>	No special exposure controls required.

## 9 – Physical and Chemical Properties

<b>Appearance</b>	Grains, powder	<b>Explosive properties</b>	Not applicable
<b>Color</b>	White	<b>Explosive limits</b>	Not applicable
<b>Odor</b>	Odorless	<b>Vapor pressure</b>	Not applicable
<b>Melting point</b>	Approx. 2000°C	<b>Specific gravity</b>	(3,7 - 4,5) g/cm <sup>3</sup>
<b>Flash point</b>	Not applicable	<b>Bulk density</b>	(500 - 2500) kg/cm <sup>3</sup>
<b>Flammability</b>	Not flammable	<b>Solubility in water</b>	Practically insoluble

<b>Ignition temperature</b>	Not applicable	<b>pH value</b>	Not applicable
<b>Auto flammability</b>	Not auto flammable	<b>Partition coefficient n-octanol/water</b>	Not applicable
<b>Oxidizing properties</b>	Not applicable		

## 10 – Stability and Reactivity

<b>Conditions to avoid:</b>	None.
<b>Materials to avoid:</b>	None.
<b>Hazardous decomposition products:</b>	The material is stable, no hazardous reactions known.

## 11 – Toxicological Information

<b>Toxicokinetics:</b>	No bio accumulating potential.
<b>Acute effects/toxicity tests:</b>	
<b>Oral:</b>	Not applicable. Not a relevant exposure route.
<b>Dermal:</b>	Not applicable.
<b>Skin corrosion:</b>	Not corrosive.
<b>Skin irritation:</b>	Not irritating.
<b>Eye irritation:</b>	Not irritating.
<b>Sensitization:</b>	Not sensitizing.
<b>Repeated dose Toxicity:</b>	
<b>Oral:</b>	Not applicable. Not a relevant exposure route.
<b>Inhalation:</b>	Not applicable.
<b>CMR effects:</b>	There is no evidence of any CMR effects.

## 12 – Ecological information

<b>Ecotoxicity:</b>	No harmful effects on water organisms anticipated, the substance is highly insoluble in water.
<b>Mobility-distribution to terrestrial compartments:</b>	Not applicable.
<b>Persistence and degradability:</b>	Not applicable for inorganic substances.
<b>Results of PBT assessment:</b>	Aluminum oxide is not a PBT substance.
<b>Other adverse effects:</b>	None.

## 13 – Disposal Considerations

<b>Appropriate disposal:</b>	Reuse or recycle when possible. Can be stored with domestic waste. Observe local bye-laws.
<b>Contaminated packaging:</b>	Packaging has to be emptied entirely. Recycling of used packaging is recommended. Local bye-laws must be observed.

## 14 – Transport information

<b>Land transport:</b>	
<b>GGVS / ADR - classification:</b>	Not classified as hazardous material.
<b>GGVE / RID:</b>	Not classified as hazardous material.
<b>Inland waterways:</b>	
<b>GGVBich : ADNR - classification:</b>	Not classified as hazardous material.
<b>Maritime transport:</b>	
<b>GGVSee / IMDG - classification:</b>	Not classified as hazardous material.
<b>Air transport:</b>	
<b>ICAO-TI / IATA - classification:</b>	Not classified as hazardous material.

## 15 – Regulatory information

### Classification according to EC guidelines:

<b>Labeling EC n° 1272/2008:</b>	The product is not classified. No hazard symbol is necessary.
<b>Labeling (65/548/EEC or 1999/45/EC):</b>	None.
<b>Hazard symbols:</b>	None.

### National regulations:

<b>e.g. (Germany) classification according VbF:</b>	Not subjected to VbF.
<b>Water pollution Category:</b>	Not water polluting (VwVwS (Germany) dated 27.07.2005, enclosure 1).

## 16 – Other Information

Relevant R and H-phrase : None

Studies by the Institute of Hygiene and Industrial Medicine of the University of Essen showed that fused aluminum oxide (corundum) is inert and possesses no toxic or carcinogenic properties.

This information covers the safety requirements of the product(s) exclusively and is based on current knowledge and experience. It does not represent a guarantee for properties of the described product(s) in terms of the legal warranty regulations.

The product specification is contained in a separate product data sheet.

Annex exposure scenario:

As a result of the hazard assessment and PBT/vPvB assessment it is found that Substance Aluminum Oxide (CAS # 1344-28-1) does not meet the criteria for classification as hazardous (according to the directives 67/548/EEC and 1272/2008/EC) nor it is considered to be a PBT/vPvB. An exposure assessment and the subsequent step of risk characterization are not required.