

# Material Safety Data Sheet

## 1, Chemical Product and Company Identification

1.1 Product name: White aluminium oxide  
Harmonized System Code: 2818.10  
Manufacturer : Shandong Renwa abrasive tech. Co.,ltd.  
Address: A709, West Renin Road,  
New Material Trading Center,  
Zhangdian, Zibo, Shandong, China.  
Tel no.: 0086-533-2805169  
Fax no.: 0086-533-2805169  
Department responsible for information: Quality Department  
Date issued: Jan.1, 2024

## 2. Composition/Information on Ingredients

**COMPONENT:** Al<sub>2</sub>O<sub>3</sub>,NaO<sub>2</sub>

CAS-No.: 1344-28-1

EINECS No.: 215-691-6

Purity: 95-100%(w/w) typical: ca. 99.7%

CAS #	EC #	Component	Concentration %
1344-28-1	215-691-6	Aluminium oxide (non-fibrous)	> 95

## 3, Hazards Identification

Critical hazards to man and environment  
EC/R: Not applicable

## 4, First aid Measures

4.1 Inhalation: No special action required  
4.2 Skin contact: No special action required  
4.3 Eye contact: Flush with plenty of water. Seek medical advice if irritation persists  
4.4 Ingestion: No special action required

## 5, Fire Fighting Measures

5.1 General information: Not inflammable  
5.2 Suitable extinguishing media: Use extinguishing measures appropriate to the source of the fire  
5.3 Extinguishing media which must not be used  
for safety reasons: None know  
5.4 Special exposure hazards arising from the substance itself, combustion products, resulting gases: None know  
5.5 Special protective equipment: Not applicable

## 6, Accidental Release Measures

6.1 Personal precautions: Avoid dust formation. Wear personal protective equipment  
(see also item 8.3)  
6.2 Environmental precautions: No special measures required

6.3 Methods for cleaning up: Pick up mechanically and dispose of in accordance to regulations

## **7, Handling and Storage**

### 7.1 Handling:

Precautions for safe handling: Avoid dust formation

Precautions against fire and explosion: No danger of fire and dust explosion

### 7.2 Storage:

Conditions of storage rooms and vessels: No special precautionary measures

Advice of storage of incompatible materials: None

Further information for storage: None

## **8, Exposure controls/personal protection**

### 8.1 Further information for system design

and engineering measures: Not applicable

### 8.2 Components with specific control

parameters as limit values: Observe the local bylaws in terms of fine dust (e.g.: TWA value 5 mg/m<sup>3</sup>, MAK value 4 mg/m<sup>3</sup> (free of fibres), see also item 16)

### 8.3 Personal protection equipment:

General protection and hygiene measures: Observe standard industrial hygiene practice

Respiratory protection: Avoid inhaling the dust

Fine-dust mask with category P1 filter must be used if fine dust  
Limits are exceeded.

Hand protection: Protective gloves are recommended

Eye protection: Safety glasses are recommended

## **9, Physical and Chemical Properties**

### 9.1 Appearance:

Form: Grains, powder

Colour: White,

Odour: Odourless

### 9.2 Safety parameters:

Change in physical state: Does not melt

Flash point: Not applicable

Flammability: Not applicable

Ignition temperature: Not applicable

Autoflammability: Not applicable

Oxidizing properties: Not applicable

Explosive properties: Not applicable

Vapour pressure: Not applicable

Specific gravity: Approx. 3.9 g/cm<sup>3</sup>

Solubility in water: Practically insoluble

PH value: Not applicable

Partition coefficient n-octanol/water: Not applicable

## **10, Stability and Reactivity**

- 10.1 General information: The material is stable, no hazardous reactions known
- 10.2 Conditions to avoid: Not applicable
- 10.3 Materials to avoid: Not applicable
- 10.4 Hazardous decomposition products: Non known

## **11, Toxicological Information**

- 11.1 General information: No hazardous effects known, if used properly (see also item 16)
- 11.2 Acute toxicity: Not known

## **12, Ecological information**

- 12.1 Information on elimination  
(persistence and degradability): Chemically inert and insoluble in water.  
Separation by mechanical processes  
(sedimentation, filtration etc.)
- 12.2 Behaviour in environmental compartments: No environmental problems known
- 12.3 Ecotoxicity: No harmful effects on water organisms anticipated
- 12.4 Further ecological information: No environmental problems expected, if handled and treated in accordance with standard industrial practice

## **13, Disposal Considerations**

- 13.1 Material: Can be stored with domestic waste.  
Observe local byelaws
- 13.2 Contaminated packaging: Packaging has to be emptied entirely.  
Recycling of used packaging is recommended.  
Local byelaws must be observed

## **14, Transport Information**

- 14.1 Land transport:  
GGVS / ADR – classification: Non hazardous material  
GGVE / RID: Non hazardous material
- 14.2 Inland waterways:  
GGVBisich / ADNR – classification: Non hazardous material
- 14.3 Maritime transport:  
GGVSee / IMDG – classification: Non hazardous material
- 14.4 Air transport:  
ICAO-TI / IATA – classification: Non hazardous material

## **15, Regulatory Information**

- 15.1 Classification according to EC guidelines:  
Danger symbol and danger-text of the  
Product: None  
EC / R: None  
EC / S: None
- 15.2 National regulations:  
e.g.: (Germany) Classification according to VbF: Not subjected to VbF

Water pollution category: Not water pollution (VwVwS (Germany) dated 17.05.1999, Enclosure 3)

#### **16. Other Information**

Studies by the institute for Hygiene and Industrial Medicine of the University of Essen showed that Aluminium Oxide possesses no toxic or carcinogenic properties.

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

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