

Material Safety Data Sheet

WHITE FUSED ALUMINA

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1. Product and company profile:

Product name: White Fused Alumina

AL₂O₃ content: 99%

Application: refractory materials, ceramic materials, abrasives

2. 成分/成分信息

Chemical name of the substance Alumina

Other names white aluminium oxide, white corundum; corundum

Are there any harmful impurities? No

3. Hazard identification

Emergency overview:

Odorless white spheres, grains and/or powder. Inhalation of high concentrations of dust material may cause eye and upper respiratory tract irritation. This material is non-flammable and does not support combustion. The primary routes of entry are inhalation, skin contact and eye contact.

Ingestion: May cause mild irritation.

Inhalation: May cause upper respiratory tract irritation.

Eye contact: May cause mild irritation.

Skin contact: May cause mild irritation.

Risk Description

Medical conditions commonly aggravated by exposure are asthma, chronic lung disease and skin rashes.

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4. First Aid Measures

4.急救措施

Ingestion:

No toxic effects, treat symptomatically and seek medical advice as necessary.

Inhalation:

No toxic effects. Classified as nuisance material.

Eye Contact:

Sharp particles can cause irritation.

Flush with clean water and seek medical advice if irritation continues. Use suitable eye protection as required.

Skin Contact:

No harmful effects wash with soap and water.

5. Fire Fighting Measures

5.消防措施

Fire / Explosion Hazards:

This product does not present fire or explosion hazards as supplied.

Extinguishing Media:

As deemed suitable by the environment.

Fire Fighting Equipment:

Respiratory and eye protection required for fire fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

6. Accidental Release Measures

6.泄漏应急处理

Person-related Safety Precautions:

Avoid contact with skin and eyes.

Cleaning and Collecting Spills:

Vacuum or sweep material and place in a disposal container. Avoid dusting. Ensure adequate ventilation.

7. Handling and Storage

7.处理和存储

Handling:

Avoid creating unnecessary excess dust during handling.

Storage:

No special storage requirements – shelf life indefinite.

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8. Exposure Controls and Personal Information

8. 曝光控制和个人信息

Exposure Guidelines:

1344-28-1 Aluminum Oxide (non-fibrous)

ACGIH 10mg/m³ (TWA - as Al)

OSHA PEL 15mg/m³ (TWA - total dust) 5 mg/m³ (TWA - respirable fraction)

Respiratory Protection:

Use NIOSH approved respiratory protection in case of insufficient ventilation and where exposure guidelines may be exceeded.

Skin Protection:

Wear suitable gloves and long sleeve shirts to avoid skin irritation or injury.

Eye Protection:

Use of safety glasses with full side shields is always recommended. Where air turbulence may be present, goggles are also recommended.

9. Physical and Chemical Properties

9. 理化性质

Physical and Chemical Properties:

理化性质:

Melting Point 熔点 2050°C

S.G 密度 3.95 g/cm³

Flashpoint 闪点 Not applicable 不适用

Odour 气味:None 无

Boiling Point 沸点 >3000°C

Solubility 溶解度 Insoluble 不溶性

Colour 颜色 White 白

Hazardous decomposition 有害物质

Products 产品 None

Hazardous reactions 有害反应 None

10. Stability and Reactivity 稳定性和反应性

Stability: Product is stable when used in accordance with specifications.

稳定性：产品按规格使用时稳定。

Conditions to Avoid: Incompatible materials.

避免的条件：不相容的材料。

Incompatibilities with Other Materials: Reacts with chlorine trifluoride or ethylene oxide.

与其他材料相容性：与氟化氯或氧化乙烯。

Hazardous Decomposition Products: None noted.

有害分解产物：没有人注意到。

Hazardous Polymerization: Will not occur.

危险聚合：不会发生。

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11. Toxicological Information

11.毒理学资料

Inhalation Temporary discomfort or mechanical irritation to the upper respiratory tract may occur due to inhalation of high dust concentrations. No acute effects expected

Skin contact No determined toxicological effects.

Ingestion No determined toxicological effects.

Eyes High dust concentrations may cause mechanical irritation.

Alpha Alumina 4 (OES) Respirable

Titanium Dioxide 4 (OES) Respirable

12. Ecological Information

生态信息

General Notes:

Environmental Statement White Aluminum Oxide is persistent and non-biodegradable but is unlikely to have any long term effect on the environment.

Mobility Solid. Involatile. Insoluble in water

Degradability Non-biodegradable. Persistent.

Accumulation No bio-accumulation or bio-magnification identified.

13. Disposal Considerations

处置注意事项

White Aluminum Oxide may be disposed of as non toxic/inactive materials in approved landfill sites in accordance with local regulations.

14. Transport Information

运输信息

White Aluminum Oxide is not classified as dangerous for transportation under EU or UK national regulations. No special precautions are required.

15. Regulations

法规

White Aluminum Oxide is not classified as dangerous to supply under EU or UK national regulations.

16. Other Information

其他信息

The information provided in this safety data sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processionk, storage, transporation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for sun material used in combination with any other materials or in any process.

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