



SHANDONG JCT ABRASIVES CO., LTD

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Material Safety Data Sheet

1. Company and Product Identification

Product name: Single Crystal Alumina

Chemical name: Aluminium Oxide

CAS NO.: 1344-28-1

Synonyms: SA

Chemical Formula: Al₂O₃

Supplier: Shandong JCT ABRASIVES CO., LTD.

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Zone, Shandong, China 255086
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2. Composition/Information on Ingredients

Ingredient Percent

Al₂O₃‰: 95.5 Fe₂O₃‰:0.02 SiO₂‰:0.02 Na₂O‰:0.09 Ti₂O‰:0.27

Suggest to use Class2.1 / UN 1950 apply in system.

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Potential Health Effects

Ingestion:

No adverse effects expected.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure:

No adverse effects expected.

Aggravation of Pre-existing Conditions:

Not expected to be a health hazard.

4. First Aid Measures

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire and to protect against the aluminum oxide dust that may be dispersed in the air.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. The material has been fired at 2050 Celsius degree, it is no hazard under normal temperature.

8. Exposure Controls

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

9. Physical and Chemical Properties

Appearance:

Light blue granules.

Odor:

Odorless.

Solubility:

Insoluble in water.

Density:

3.7 g/cm³

Melting Point:

> 2000 °C

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

Incompatibles.

11. Toxicological Information

Non-Toxic and Non-Flammable

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

Chemical Weapons Convention: No

Chronic: No

Fire: No

Pressure: No

Reactivity: No (Pure / Solid)

16. Other Information

Label Precautions:

Keep container closed.

Avoid breathing dust.

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