



MSDS Report
Issue Date: Nov. 08, 2023

Service Requested: Material Safety Data Sheet for the Product

Version : 1.0

Applicant: Ceramic Pigment & Glaze Co.,Ltd.

Product name: calcined alumina oxide/calcined
aluminum oxide
Ceramic

Product use:

Job receiving date: Oct. 02, 2023

Preparation period: Oct. 03, 2023~ Nov. 08, 2023

Composition/Ingredient Refer to MSDS content.

Issued by: Nande (China) Service of Testing
Yinfeng Ind Zone, Hangcheng Street, Gushu,
Xixiang,
Bao'an Dist, Shenzhen, China

Written by: _____

(Linda)

Inspected by: _____

(Jose)

Approved by: _____

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Material Safety Data Sheet

Product name: calcined alumina oxide/calcined aluminum oxide

MSDS No.: Z33.151.106.002.YSC

Section 1 - Product and Company Identification

Product name: calcined alumina/calcined aluminum oxide

Model : none

CAS No.:1302-74-5

Section 2 - Hazard Description

2.1. Classification of the substance or mixture: Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2. Other hazards: No data

Section 3 - Composition / Ingredient Data

Material		√ Mixture	
Ingredient name	CAS No.	EINECS No.	含量% /Wt%
Silicon dioxide	7631-86-9	231-545-4	0.063%
Sodium oxide	1313-59-3	215-208-9	0.404%
Aluminum oxide (2:3)	1344-28-1	215-691-6	99.47%
Ferric oxide	1309-37-1	215-168-2	0.016%
Loss	-----	-----	0.047%

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Section 4 - First Aid Measures

- 4.1. General advice: Show this safety data sheet to the doctor in attendance.
- 4.2. Skin contact: Flush contaminated skin with plenty of water. If necessary, get medical attention.
- 4.3. Eyes contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
- 4.4. Inhalation: Remove the source of contamination Move exposed person to fresh air. If necessary, consult a physician.
- 4.5. Ingestion: Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. Get medical attention if adverse health effects persist or are severe.
- 4.6. Most important acute and delayed symptoms/effects: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.7. Immediate / special treatment: Treat symptomatically and supportively.

Section 5 – Firefighting Measures

- 5.1. Hazardous characteristics: Not dangerous chemicals.
- 5.2. Extinguishing method and extinguishing agent: Use dry sand, dry chemical or CO2 foam extinguishing. Water spray can be used to cool fire exposed containers/materials. Use extinguishing media most appropriate for the surrounding fire.
- 5.3. Special hazards arising from the substance or mixture: The product is not flammable
- 5.4. Fire precautions and measures: Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. As far as possible will be transferred to empty containers from the scene. Keep the fire water spray container cooling, until the end of fire.

Section 6 - Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
 - 6.2. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
 - 6.3. Collecting, clearing method and disposal material: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations.

Section 7 - Handling and Storage

- 7.1. Handling Precautions: Avoid contact with eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Observe good housekeeping procedures and hygiene practices.
- 7.2. Storage Requirements: Store tightly closed in a cool, dry and well-ventilated place. Keep upright in original packaging. Keep away from sources of ignition, heat and direct sunlight. Keep out of reach of children and pets.

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7.3. Packaging materials: Recommended-Use original container

Section 8 - Exposure Controls/ Personal Protection

8.1. Exposure limit: Aluminum oxide: OSHA PEL (Construc): 8H TWA 15 mg/m³, total dust; PC-TWA: 4 mg/m³;

Ferric oxide: OSHA PEL (Gen Indu):8H TWA 15 mg/m³, total dust.

8.2. Engineering control: The production process is sealed, general ventilation. Provide safety shower and eyewash equipment.

8.3. Respiratory protection: Use a respirator with an approved filter in case of dust formation.

8.4. Eye protection: Wear safety glasses when there is a potential for eye contact.

8.5. Skin and body Protection: Suitable protective clothing.

8.6. Hand protection: Chemical resistant protective gloves.

8.7. Remark: No specific protective equipment for product is required under normal use conditions.

8.8. Hygiene Measures: Avoid contact with eyes. Wash hands before breaks and at the end of work.

Section 9 - Physical and Chemical Properties

Appearance and shape: Grain, powder, Lump, Multiple colors

Odor: None

Melting point: Not applicable

Explosion limit: None

Water soluble: Insoluble in water

Flammability: Not burning

Vapor pressure: N/A

Vapor density: 20~25

Proportion: 3~5

pH: 7

Oxidation: None

Flash point: Not applicable

Section 10 - Stability and Reactivity

10.1. Stability: Stable under normal conditions.

10.2. Reactivity: Stable under recommended storage and handling conditions.

10.3. Incompatible materials: Strong oxidizing agents, strong acid.

10.4. Conditions to avoid: Humid air.

10.5. Hazardous polymerization: Will not occur.

10.6. Hazardous decomposition products: Metallic oxides.

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Section 11 - Toxicological Information

- 11.1. Acute toxicity: Aluminum oxide: LD50 Oral –rat - > 10,000 mg/kg;
Zinc oxide: LD50 Oral-rat- 7950 mg/kg
- 11.2. Skin corrosion/irritation: Zinc oxide: Skin-rabbit-Standard test 500mg/24h Mild
- 11.3. Eye corrosion/irritation: If dust enters the eye will stimulate the eyes.
- 11.4. Respiratory or skin sensitization: These products are not known to cause human skin or respiratory sensitization.
- 11.5. Germ cell mutagenicity: No data is available on the product itself.

Section 12 - Ecological Information

- 12.1. Ecotoxicity values: No data.
- 12.2. Persistence and degradability: No data.
- 12.3. Bioaccumulative potential: Unknown.
- 12.4. Mobility in soil: No data.
- 12.5. Other adverse effects: Negligible ecotoxicity. But without government permission, Do not dispose directly into rivers, watercourses or drains.

Section 13 - Disposal Considerations

- 13.1. Product: Transfer to a suitable container and arrange for collection by specialised disposal company.
- 13.2. Contaminated packaging: Dispose of as unused product.
- 13.3. Disposal considerations: Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with national and local relevant regulations laws.

Section 14 - Transport Information

Regulations	IATA DGR	IMDG Code	ADR/RID
UN No.	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Hazard Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Packing method	Not regulated	Not regulated	Not regulated
Environmental hazards	No		
Notes	No information		

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Section 15 - Regulatory Information

regulations on domestic and foreign laws

15.1. Persistent Organic Pollutant Control Act: Not applicable

15.2 Foreign Regulation : Listed

American Regulations : Listed

OSHA regulation: Listed

EINECS regulation: Listed

EU Classification code : No data available

15.3. All existing national regulations must be followed when handle the product and dispose its waste.

Section 16 - Other Information

16.1. Legal disclaimer: The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. the above-named supplier and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.