

MATERIAL SAFETY DATA SHEET (MSDS)

Product Name: Pink Fused Alumina (Chrome Alumina)

Initial Issue Date: November 14, 2018

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SDS No.: LB/PA-2026-01

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Pink Fused Alumina (PA)

Chemical Name: Aluminium Oxide

CAS No.: 1344-28-1

Molecular Formula: Al_2O_3

Company Name: Luoyang Bodan Abrasives Co., Ltd.

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SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Pink to light red powder or grains. Odorless.

Non-flammable and non-explosive.

No significant health hazards under normal use. Prolonged exposure to high concentrations of dust may cause mechanical irritation to skin, eyes, and respiratory tract.

GHS Classification: This product is not classified as a hazardous substance under GHS criteria in its conventional supplied form.

Physical and Chemical Hazards: Not flammable, not explosive, chemically stable.

Health Hazards (based on dust):

Inhalation: High dust concentrations may cause respiratory irritation or coughing.

Skin Contact: May cause mechanical irritation.

Eye Contact: Dust may cause redness and mechanical irritation.

Ingestion: No adverse effects expected.

Environmental Hazards: No known environmental hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Composition:

Component Name	Content (%)	CAS No.
Aluminium Oxide(Al_2O_3)	≥ 99.0	1344-28-1
Chromium Oxide(Cr_2O_3)	< 0.5	1308-38-9
Other Impurities($\text{Fe}_2\text{O}_3, \text{SiO}_2, \text{Na}_2\text{O}$)	Trace	-

SECTION 4: FIRST AID MEASURES

Inhalation: Move victim to fresh air. If breathing has stopped, perform artificial respiration. If cough or irritation develops, seek medical advice.

Skin Contact: Wash off with soap and plenty of water.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water. If large amounts are swallowed, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use media suitable for surrounding fire (e.g., water spray, foam, dry powder, CO_2).

Specific Hazards: Product is non-combustible. May melt above 2050°C but does not present a fire risk.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus when entering fire area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear dust mask and protective gloves. Avoid dust generation.

Environmental Precautions: Prevent large quantities of dust from entering drains or watercourses.

Methods for Cleaning Up: Wear protective equipment. Sweep up and collect into dry, clean containers. Use a vacuum or wet sweeping to avoid dust dispersal.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Avoid creating and inhaling dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke in work areas.

Storage Conditions: Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Keep away from incompatible materials such as strong acids and alkalis.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

China MAC: Not established.

US ACGIH TLV-TWA: 1 mg/m³.

Engineering Controls: Use local exhaust or general ventilation to maintain airborne dust concentrations below exposure limits.

Respiratory Protection: Wear an N95 or KN90 dust mask if airborne dust concentration exceeds limits.

Hand Protection: Wear protective gloves.

Eye Protection: Wear safety goggles or a dust shield.

Skin and Body Protection: Wear standard work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink/light red powder or grains.

Odor: Odorless.

Melting Point: > 2000°C

Boiling Point: Approx. 3000°C

Density: Approx. 3.97 g/cm³

Solubility: Insoluble in water.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

Conditions to Avoid: Contact with strong acids and alkalis.

Incompatible Materials: Strong acids, strong alkalis, strong oxidizing agents.

Hazardous Decomposition Products: None.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Non-toxic.

Irritation: Dust may cause mechanical irritation to eyes and respiratory tract.

Chronic Effects: Prolonged excessive inhalation of alumina dust may lead to pneumoconiosis (dust lung), though this typically requires very high concentrations and long-term exposure.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity: No known eco-toxicity.

Persistence and Degradability: Not applicable (inorganic substance).

Other Adverse Effects: None.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of as general industrial solid waste in accordance with local laws and regulations. Recycling is recommended to avoid environmental pollution.

SECTION 14: TRANSPORT INFORMATION

UN Number: Not regulated (non-hazardous goods).

Packing Method: Woven bags or paper bags with inner plastic liners.

Transport Precautions: Protect from rain and prevent package damage.

SECTION 15: REGULATORY INFORMATION

Not listed in the "Catalogue of Hazardous Chemicals" (China).

Not a controlled substance under the Chemical Weapons Convention.

Other Regulations: "Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents" (GBZ 2.1, China).

SECTION 16: OTHER INFORMATION

References:

Abrasives - Pink Fused Alumina MSDS.

Sigma-Aldrich Aluminium Oxide SDS (Version 6.4).

ILO International Chemical Safety Cards (ICSC) - Aluminium Oxide (0351).

Disclaimer: The information provided in this SDS is based on our current knowledge and is intended as a guide for safe handling, use, and disposal. This document does not constitute a warranty for any specific use. Users should exercise their independent judgment to determine its suitability for their particular purposes.