

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fumed Alumina, Aluminium Oxide

Use of the Substance/Preparation: Improve chargeability and flowing in powder coatings; In fluorescent lamp to get homogenous light emission, reduce light attenuation, to avoid fluorescent tube from darkness

Manufacturer: Henan Xunyu Chemical Co., Ltd

No.18, Shangwu Waihuan Road, Zhengdong New Dis, Zhengzhou City, Henan Province, P.R.China

Tel: +86 371 69176282 Fax: +86 371 69176283 www.xunyuchem.com

E-Mail Address: MSDS@xunyuchem.com, info@xunyuchem.com, marketing@xunyuchem.com

Emergency Tel No: +86 371 69176285

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

2.2. Label elements

Statutory basis Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

2.3. Other hazards

None known.

3. COMPOSITION\INFORMATION ON INGREDIENTS

CAS-No.	Chemical Name	Remarks
1344-28-1	Aluminium oxide, Fumed Alumina	Not a hazardous substance or mixture.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation

In case product dust is released: Possible discomfort: cough, sneezing

Move victims into fresh air.

Skin contact

Wash off with soap and plenty of water.

Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Ingestion

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms

None known

Hazards

None known

Indication of any immediate medical attention and special treatment needed

After absorbing large amounts of substance: Administration of activated charcoal: Acceleration of gastrointestinal passage.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder., Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

None known.

Advice for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDING AND STORAGE

Precautions for safe handling

Use with adequate ventilation. Minimize the escape of dust from process equipment and ventilation systems.

Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Storage

Keep containers tightly closed in a dry, cool place

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Solid. (Solid crystalline powder.)

Odour: Odourless.

Taste: Not available.

Molecular Weight: 101.96 g/mole

Colour: White powder

pH (1% soln/water): Not applicable.

Boiling Point: 2980°C (5396°F)

Melting Point: 2072°C (3761.6°F)

Critical Temperature: Not available.

Specific Gravity: 4 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Insoluble in hot water.

Practically insoluble in non-polar organic solvents.

Slowly soluble in aqueous alkalie solution-forming hydroxides.

Very slightly soluble in acid, alkali.

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Chlorine Trifluoride reacts violently with Aluminum Oxide producing a flame.

Ethylene oxide may polymerize violently when in contact with highly catalytic surfaces such as pure Aluminum Oxide.

Reacts with hot chlorinated rubber.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available.

LC50: Not available.

Inhalation: Nuisance Dust. Material is irritating to mucous membranes and upper respiratory tract. May cause lung injury.

Ingestion: May be harmful if swallowed. Ingestion of large amounts mat cause gastrointestinal tract irritation. It is expected

to be a low hazard for normal industrial handling

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION

US DOT & CANADA TDG SURFACE

Not regulated for transport

Transport by sea IMDG-Code

Not regulated for transport

Air transport ICAO-TI / IATA-DGR

Not regulated for transport

15. REGULATORY INFORMATION

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Aluminum oxide

Rhode Island RTK hazardous substances: Aluminum oxide

Minnesota: Aluminum oxide

Massachusetts RTK: Aluminum oxide

New Jersey: Aluminum oxide

New Jersey spill list: Aluminum oxide

California Director's list of Hazardous Substances: Aluminum oxide

TSCA 8(b) inventory: Aluminum oxide

SARA 313 toxic chemical notification and release reporting: Aluminum oxide

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R36/38- Irritating to eyes and skin.

S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice

immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an

approved/certified respirator or

equivalent.

Splash goggles

16. OTHER INFORMATION

Disclaimer: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Prepared by: Henan Xunyu Chemical Co., Ltd

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