



洛阳建龙微纳新材料股份有限公司  
Luoyang Jianlong Micro-Nano New Materials Co., Ltd.  
Add: Junmin Rd., Ind. Cluster District, Yanshi, Henan, 471900, China.  
Tel: +86-379-69895719 Fax: +86-379-69895717

# Material Safety Data Sheet

## \*\*Section 1 -Chemical Product And Company Identification\*\*

Product Name: Activated Alumina

Product Use: Desiccant

Manufacturer Identification:

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## \*\* SECTION 2 -COMPOSITION, INFORMATION ON INGREDIENTS \*\*

CAS#	Chemical Name	%	EINECS#
1344-28-1	Aluminum oxide	>90	215-691-6

Hazard Symbols: None Listed. Risk Phrases: None Listed.

## \*\* SECTION 3 -HAZARDS IDENTIFICATION \*\*

EMERGENCY OVERVIEW: Not available.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: Chronic exposure may cause lung damage.

## \*\* SECTION 4 -FIRST AID MEASURES \*\*\*

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

## \*\* SECTION 5 -FIRE FIGHTING MEASURES \*\*

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.



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Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

## **\*\* SECTION 6 -ACCIDENTAL RELEASE MEASURES \*\***

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

## **\*\* SECTION 7 -HANDLING and STORAGE \*\***

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Storage: Store in a cool, dry place. Store in a tightly closed container.

## **\*\* SECTION 8-EXPOSURE CONTROLS, PERSONAL PROTECTION \*\***

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Exposure Limits CAS# 1344-28-1:

Personal Protective Equipment

Eyes: Not available. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## **\*\* SECTION 9 -PHYSICAL AND CHEMICAL PROPERTIES \*\***

Physical State: Powder Color: white Odor: Not available. pH: Not available. Vapor Pressure: Not available. Viscosity: Not available. Boiling Point: 2977 deg C @760mmHg Freezing/Melting Point: 2030 deg C Autoignition Temperature: Not available. Flash Point: Not available. Explosion Limits, lower: Not available. Explosion Limits, upper: Not available. Decomposition Temperature: Solubility in water: Specific Gravity/Density: Molecular Formula: Al<sub>2</sub>O<sub>3</sub> Molecular Weight: 101.96

## **\*\* SECTION 10 -STABILITY AND REACTIVITY \*\***

Chemical Stability: Stable. Conditions to Avoid: Incompatible materials, exposure to moist air or water. Incompatibilities with Other Materials:

Ethylene oxide, halogenated agents, nitrates, oxygen difluoride, vinyl acetate.

Hazardous Decomposition Products: Aluminum oxide. Hazardous Polymerization:

Will not occur. Toxicological:None.

## **\*\* SECTION 11 -TOXICOLOGICAL INFORMATION \*\***

RTECS#: CAS# 1344-28-1: BD1200000

LD50/LC50: Not available.

Carcinogenicity: Aluminum oxide



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Not listed by ACGIH, IARC, or NTP.

Other: See actual entry in RTECS for complete information.

**\*\* SECTION 12 -ECOLOGICAL INFORMATION \*\***

**\*\* SECTION 13 -DISPOSAL CONSIDERATIONS \*\*\***

Dispose of in a manner consistent with federal, state, and local regulations.

**\*\* SECTION 14 -TRANSPORT INFORMATION \*\***

IATA Not regulated as a hazardous material.

IMO Not regulated as a hazardous material.

IMDG Not regulated as a hazardous material.

RID/ADR Not regulated as a hazardous material.

**\*\* SECTION 15 -REGULATORY INFORMATION \*\***

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 1344-28-1:

Canada

CAS# 1344-28-1 is listed on Canada's DSL List.

CAS# 1344-28-1 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 1344-28-1 is listed on the TSCA inventory.

**\*\* SECTION 16 -ADDITIONAL INFORMATION \*\***

MSDS Creation Date: 01/01/2020

last updated: 01/01/2020

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