



Safety Data Sheet

MOLECULAR SIEVE TYPE 4A

SDS Revision Date: 6/26/19

Section 1: Chemical Product and Company Identification

1.1 Product Identifier

Product Identity

Alternate References

MOLECULAR SIEVE TYPE 4A
3003139330

1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Intended Use

Restriction On Use

Used for adsorption, separation, drying.
No information available.

1.3 Details of Supplier of the Safety Data Sheet

Company Name

Shanghai Hengye Molecular Sieve Co., Ltd.
No.12 Guangda Road, Qingcun Town, Fengxian District
Shanghai, China 201414

Customer Service:

+86 21 5756 8588

Emergency:

+0086 13501660751

Section 2: Hazards Identification

2.1 Classification of the Chemical

This product is not classified as hazardous.

2.2 Label Elements

This product is not classified as hazardous.

Pictogram(s): No pictogram.

Signal word: No signal word.

Hazard statements: No hazard statement.

Precautionary statements: No precautionary statement.

2.3 Description of Hazards Not Otherwise Classified

No information available.

2.4 Ingredient With Unknown Acute Toxicity

No information available.

Section 3: Composition/Ingredient Information

Chemical Name	Percent (by weight)	CAS No.
Silicon Oxide (Synthetic)	< 60%	7631-86-9
Sodium Oxide	< 40%	1313-59-3
Aluminum Oxide	< 40%	1344-28-1



Magnesium Oxide	< 5%	1309-48-4
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Section 4: First Aid Measures

4.1 Description of First Aid Measures

General: Immediate medical attention and special treatment. Attending physician should treat exposed patients symptomatically.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if necessary.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes.

Skin: Wash exposed skin with soap and water. If irritation develops, seek medical attention.

Ingestion: If the material is swallowed, get immediate medical attention or advice. Never give anything by mouth to an unconscious person. If conscious and alert, give several glasses of water or milk.

4.2 Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: Cough.

If Product Gets in Eyes Contact: Redness. Pain.

If Ingested: Abdominal pain.

Section 5: Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable Extinguishing Media: Water with full jet.

5.2 Special Hazards Arising from the Substance/Mixture

No particular hazards known

5.3 Advice for Fire-Fighters

Firefighters must wear fire resistant protective equipment. Wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

6.1 Personal Precautions

Refer to SECTION 8 for personal protective equipment. Prevention of skin and eye contact. Ensure adequate ventilation.

6.2 Methods and Materials for Cleanup

Sweep the spill area; avoid raising dust. Provide ventilation.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Dust and/or fine particles, minimize inhalation exposure. Remove contaminated clothing and shoes. Wash clothing before re-using. Avoid dust production. Vacuum systems are provided if dust is formed. Any unavoidable deposit of dust must be regularly removed.

7.2 Conditions for Safe Storage

Keep packaging closed when not in use. Store in dry protected location to prevent any moisture contact. Incompatible materials: Strong acids, bases.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters



Permissible Exposure Limits (PELs):

CAS# 1344-28-1: PEL-TWA 15mg/m³ (OSHA, total) 5mg/m³ (OSHA, resp)

CAS# 7631-86-9: PEL-TWA 15mg/m³ (OSHA, total) 5mg/m³ (OSHA, resp) 5mg/m³ (OSHA, fume); TLV-TWA 6mg/m³ (ACGIH)

8.2 Exposure Controls

Respiratory: It is suggested to use an appropriate respirator if dust in the air or if irritation or other symptoms are experienced.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Equipped with safety shower and eyes bath.

Clothing: Working clothing is suggested

Section 9: Chemical and Physical Properties

Appearance:	Tan
Odor:	None
pH:	8~11 (AS)
Melting Point/Freezing Point:	N/A
Initial Boiling Point:	N/A
Density:	0.5~0.9 g/mL
Solubility in Water:	Soluble in acid or soda, insoluble in water
Autoignition Temperature:	N/A
Decomposition Temperature:	N/A

Section 10: Stability and Reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions (see section 7, handling and storage).

10.2 Chemical Stability

Stable under normal condition.

10.3 Conditions to Avoid

The addition of the moisture (water) without flooding can cause rise in temperature from heat of adsorption, and contact with skin might result in burns.

10.4 Incompatible Materials

Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc.

Section 11: Toxicological Information

11.1 Likely Routes of Exposure

Inhalation: Cough.

Ingestion: Abdominal pain.

Eye contact: Redness. Pain.

11.2 Toxicological Characteristics

CAS# 1344-28-1: LD50: >5000 mg/Kg (oral, rat)

CAS# 7631-86-9: LD50: >5510 mg/Kg (oral, rat); LD50: >5000 mg/Kg (dermal, rabbit)

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Sensitization Rate: Not available.

Teratogenicity: Not available.



Section 12: Ecological Information

12.1 Environmental Toxicity

Not available.

Aquatic Toxicity: Not available.

12.2 Ecological Degradation

Not available.

12.3 Abiology Degradation

Not available.

Section 13: Disposal Information

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transportation Information

Not regulated as a hazardous material for transportation. (D.O.T; TDG; IMDG; IATA;DGR)

UN Number:

N/A

UN Proper Shipping Name:

N/A

Packaging Sign:

N/A

Packaging Category:

N/A

Packaging Method:

N/A

Shipping Notice:

N/A

Section 15: Regulatory Information

Reference to the local, national and EU / international regulations.

Safety, health and environmental regulations specific for the product in question:

CAS No.	USA TSCA	EU EINECS	Korea ECL	China IECSC	Canada DSL
1318-02-1	Listed	Listed	Listed	Listed	Not Listed

Remark: The above-mentioned search results are based on the Non-Confidential Inventory.

EU REACH: The substance has been registered under REACH Regulation.

Section 16: Other Information

16.1 Preparation and Revision Information

Issue Time: 2015-5-19

Issue Department: Technical Department

16.2 Abbreviations and Acronyms

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSL: Domestic Substances List

EINECS: European Inventory of Existing Commercial chemical Substances

ECL: Existing Chemicals List, the Korean chemical inventory.

IECSC: Inventory of existing chemical substances in China.

16.3 Disclaimer



The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.