

Material Safety Data Sheet

Molecular Sieve, Grade 513-514, 4-8 Mesh

ACC# 91589

Section 1 - Chemical Product and Company Identification

MSDS Name: Molecular Sieve, Grade 513-514, 4-8 Mesh

Catalog Numbers: BP2631-500, BP2634-500

Synonyms: None Known.

Company Identification:

Fisher Scientific

1 Reagent Lane

Fair Lawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1332-58-7	Kaolin	<100.0	unlisted
1344-00-9	Sodium aluminum silicate	0-100.0	215-684-8
1344-01-0	Silicic acid, aluminum calcium sodium salt	0-100.0	215-685-3
12736-96-8	Sodium potassium aluminum silicate	0-100.0	235-787-1
14808-60-7	Quartz	<3.0	238-878-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white to tan solid.

Caution! May cause respiratory tract irritation. May cause skin irritation. May cause eye irritation. May cause digestive tract irritation. Contains trace amounts of quartz which may lead to fibrotic lung disease, silicosis or cancer.

Target Organs: Lungs.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. Low hazard for usual industrial handling.

Inhalation: Dust is irritating to the respiratory tract.

Chronic: Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

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

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

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

Notes to Physician: None

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Kaolin	2 mg/m3 TWA (respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)3000 mg/m3 IDLH (listed under Silica, amorphous).	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Sodium aluminum silicate	none listed	none listed	none listed
Silicic acid, aluminum calcium sodium salt	none listed	none listed	none listed
Sodium potassium aluminum silicate	none listed	none listed	none listed
Quartz	0.05 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust) 50 mg/m3 IDLH (respirable dust)	none listed

OSHA Vacated PELs: Kaolin: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) Sodium aluminum silicate: No OSHA Vacated PELs are listed for this chemical. Silicic acid, aluminum calcium sodium salt: No OSHA Vacated PELs are listed for this chemical. Sodium potassium aluminum silicate: No OSHA Vacated PELs are listed for this chemical. Quartz: 0.1 mg/m3 TWA (respirable dust)

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white to tan

Odor: odorless

pH: 13.3-10.5 (5% slurry)

Vapor Pressure: Not applicable.

Vapor Density: Not applicable.

Evaporation Rate:Not available.

Viscosity: Not applicable.

Boiling Point: Not applicable.

Freezing/Melting Point:Not available.

Decomposition Temperature:Not available.

Solubility: Insoluble in water.

Specific Gravity/Density:2.1

Molecular Formula:Mixture

Molecular Weight:Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: None reported.

Hazardous Decomposition Products: Carbon monoxide, silicon dioxide, aluminum oxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 1332-58-7: GF1670500

CAS# 1344-00-9: VV8902500

CAS# 1344-01-0 unlisted.

CAS# 12736-96-8 unlisted.

CAS# 14808-60-7: VV7330000

LD50/LC50:

Not available.

CAS# 1344-00-9:

Oral, rat: LD50 = >27 gm/kg;

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CAS# 1344-01-0:

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CAS# 12736-96-8:

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CAS# 14808-60-7:

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Carcinogenicity:

CAS# 1332-58-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 1344-00-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 1344-01-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 12736-96-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 14808-60-7:

- **ACGIH:** A2 - Suspected Human Carcinogen
- **California:** carcinogen, initial date 10/1/88 (airborne particles of respirable size)
- **NTP:** Known carcinogen (listed as Silica, crystalline (general form)).
- **IARC:** Group 1 carcinogen

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Neurotoxicity: No data available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: No information reported.

Physical: No information reported.

Other: None

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 1332-58-7 is listed on the TSCA inventory.

CAS# 1344-00-9 is listed on the TSCA inventory.

CAS# 1344-01-0 is listed on the TSCA inventory.

CAS# 12736-96-8 is listed on the TSCA inventory.

CAS# 14808-60-7 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 14808-60-7: delayed.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 1332-58-7 can be found on the following state right to know lists: California, (listed as Silica, amorphous), New Jersey, (listed as Silica, amorphous), Pennsylvania, Minnesota, Massachusetts.

CAS# 1344-00-9 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 1344-01-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 12736-96-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 14808-60-7 can be found on the following state right to know lists: New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

WARNING: This product contains Quartz, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

Risk Phrases:**Safety Phrases:****WGK (Water Danger/Protection)**

CAS# 1332-58-7: 0

CAS# 1344-00-9: 0

CAS# 1344-01-0: No information available.

CAS# 12736-96-8: 0

CAS# 14808-60-7: No information available.

Canada - DSL/NDL

CAS# 1332-58-7 is listed on Canada's DSL List.

CAS# 1344-00-9 is listed on Canada's DSL List.

CAS# 1344-01-0 is listed on Canada's DSL List.

CAS# 12736-96-8 is listed on Canada's DSL List.

CAS# 14808-60-7 is listed on Canada's DSL List.

Canada - WHMIS

not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 1332-58-7 (listed as Silica, amorphous) is listed on the Canadian Ingredient Disclosure List.

CAS# 14808-60-7 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 6/19/2000

Revision #7 Date: 10/03/2005

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. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.