

# Material Safety Data Sheet

Molecular sieves, 5a, 8 to 12 mesh

ACC# 47021

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Molecular sieves, 5a, 8 to 12 mesh

**Catalog Numbers:** AC197290000, AC197290050, AC197295000

**Synonyms:** None

**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01

**For emergencies in the US, call CHEMTREC:** 800-424-9300

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1332-58-7	Kaolin		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		238-878-4

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: beige solid.

**Caution!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Hygroscopic (absorbs moisture from the air). The toxicological properties of this material have not been fully investigated.

**Target Organs:** None known.

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** The toxicological properties of this substance have not been fully

investigated.

**Inhalation:** Dust is irritating to the respiratory tract. The toxicological properties of this substance have not been fully investigated.

**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. Get medical aid immediately.

**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:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**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.

**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.

**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:** Not published.

## 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. Avoid generating dusty conditions.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** 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/m <sup>3</sup> TWA (respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica)	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust) 3000 mg/m <sup>3</sup> IDLH (listed under Silica, amorphous).	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> 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/m <sup>3</sup> TWA (respirable fraction)	0.05 mg/m <sup>3</sup> TWA (respirable dust) 50 mg/m <sup>3</sup> IDLH (respirable dust)	none listed

**OSHA Vacated PELs:** Kaolin: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> 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/m<sup>3</sup> 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 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:** Solid  
**Appearance:** beige  
**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:**Not applicable.  
**Molecular Weight:**Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Dust generation.  
**Incompatibilities with Other Materials:** None reported.  
**Hazardous Decomposition Products:** Irritating and toxic gases.  
**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;

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
<b>Shipping Name:</b>	Not regulated as a hazardous material	No information available.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## 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 depletors.

This material does not contain any Class 2 Ozone depletors.

#### 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:**

S 24/25 Avoid contact with skin and eyes.

**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/NDSL**

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**

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.

**MSDS Creation Date:** 11/26/1997

**Revision #5 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.*