

# Material Safety Data Sheet

## Silica gel, dessicant, non-toxic grade, 2-5 mm

ACC# 03794

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Silica gel, dessicant, non-toxic grade, 2-5 mm

**Catalog Numbers:** AC357400000, AC357400010, AC357400050

**Synonyms:** Diatomaceous earth; Infusorial earth; Silicon dioxide; Amorphous silica; Non-crystalline form of SiO<sub>2</sub>.

**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
7631-86-9	Silica, amorphous	100	231-545-4

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: white to gray white powder.

**Caution!** May cause mechanical eye irritation. Material is a regenerative adsorbent capable of taking up and holding about 4X its weight of water. May cause respiratory tract irritation. Hygroscopic (absorbs moisture from the air).

**Target Organs:** Respiratory system, eyes.

#### Potential Health Effects

**Eye:** Dust may cause mechanical irritation.

**Skin:** Low hazard for usual industrial handling.

**Ingestion:** No hazard expected in normal industrial use.

**Inhalation:** May cause respiratory tract irritation. This form of silica is only considered a nuisance dust. This product is not hazardous except when inhalable particulates are present or can be generated.

**Chronic:** Chronic inhalation of dust may lead to silicosis. Chronic inhalation can cause pneumoconiosis.

### Section 4 - First Aid Measures

**Eyes:** Immediately 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. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. 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. Substance is noncombustible.

**Extinguishing Media:** Use extinguishing media most appropriate for the 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. Material is a regenerative adsorbent capable of taking up and holding about 4X its weight of water. If spilled, it will adsorb water vapor from the air and any moisture from surroundings.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

**Storage:** Store in a cool, dry place. Keep container closed when not in use. Store protected from moisture.

## 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
Silica, amorphous	none listed	6 mg/m3 TWA 3000 mg/m3 IDLH	none listed
Silica gel, pptd., cryst.-free, hydrated form	10 mg/m3 TWA	none listed	none listed

**OSHA Vacated PELs:** Silica, amorphous: No OSHA Vacated PELs are listed for this chemical. Silica gel, pptd., cryst.-free, hydrated form: 6 mg/m3 TWA

### 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:** Glove protection is not normally required.

**Clothing:** Protective garments not normally required.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder

**Appearance:** white to gray white

**Odor:** odorless

**pH:** Not available.

**Vapor Pressure:** 0 mm Hg @ 25 deg C

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 2230 deg C

**Freezing/Melting Point:** 1710 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Insoluble.

**Specific Gravity/Density:** 2.20g/cm

**Molecular Formula:** SiO<sub>2</sub>

**Molecular Weight:** 60.08

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Dust generation, moisture.

**Incompatibilities with Other Materials:** Chlorine trifluoride, fluorine, oxygen difluoride.

**Hazardous Decomposition Products:** Oxides of silicon.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

### RTECS#:

**CAS#** 7631-86-9: EU8655000; VV7565000

**CAS#** 112926-00-8: VV7315000

### LD50/LC50:

**CAS#** 7631-86-9:

Draize test, rabbit, eye: 25 mg/24H Mild;

**CAS#** 112926-00-8:

### Carcinogenicity:

**CAS#** 7631-86-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**CAS#** 112926-00-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Silicosis may increase the risk for tuberculosis.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.  
**Neurotoxicity:** No information available.  
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.  
**Environmental:** Dusts will settle as sediment and will not bioconcentrate.  
**Physical:** No information available.  
**Other:** No information available.

## 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# 7631-86-9 is listed on the TSCA inventory.  
CAS# 112926-00-8 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

**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.

**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# 7631-86-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.  
CAS# 112926-00-8 can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

### California Prop 65

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# 7631-86-9: 0

CAS# 112926-00-8: 0

**Canada - DSL/NDSL**

CAS# 7631-86-9 is listed on Canada's DSL List.

CAS# 112926-00-8 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2B.

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# 7631-86-9 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
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**MSDS Creation Date:** 1/16/2002

**Revision #4 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.*