

MSDS Number: **Z7087** * * * * * *Effective Date: 12/04/07* * * * * * *Supersedes: 06/12/06*



From: Mallinckrodt Baker, Inc.
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24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. And Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

Octyl Bonded Silica Gel (Column)

1. Product Identification

Synonyms: None

CAS No.: 126849-95-4

Molecular Weight: Not available.

Chemical Formula: Not Available.

Product Codes: 7087, 7105, 7109, 7282, 7296, 7523, 7595, 7596, 8154, 8156, XL-221

2. Composition/Information on Ingredients

| Ingredient | CAS No | Percent |
|----------------------------------|-------------|-----------|
| Hazardous | | |
| ----- | ----- | ----- |
| ----- | | |
| Octyl Bonded Silica Gel | 126849-95-4 | 90 - 100% |
| Yes | | |
| (synthetic amorphous silica gel) | | |

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

NOTE: The hazard information listed is for the chromatography packing contained within the pre-packed chromatography column. All data is based on unbonded silica gel. Bonded silica gels have not been tested for their health effects. This product contains synthetic amorphous silica, not to be confused with crystalline silica such as quartz, cristobalite or tridymite or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms.

Inhalation:

May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat, and wheezing.

Ingestion:

No adverse effects expected.

Skin Contact:

May cause irritation with dryness and abrasion.

Eye Contact:

May cause irritation, redness and pain.

Chronic Exposure:

Repeated exposure may cause symptoms similar to those listed for acute effects. Synthetic amorphous silica does not produce silicosis.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. When pouring into a container of flammable liquid, ground both containers electrically to prevent a static electric spark. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Silica (synthetic, amorphous):

- OSHA Permissible Exposure Limit (PEL) -

80/(%SiO₂) mg/m³ (TWA) for amorphous silica, including natural diatomaceous earth.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Prepacked metallic, plastic, or glass column.

Odor:

Odorless.

Solubility:

Negligible (< 0.1%)

Specific Gravity:

No information found.

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

No information found.

Melting Point:

No information found.

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

Not applicable.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of carbon and silicon may be formed when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Reacts with hydrogen fluoride, fluorine, oxygen difluoride, chlorine trifluoride, strong acids, strong bases, and oxidizers.

Conditions to Avoid:

Moisture, extreme heat, and incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

| Ingredient Category | ---NTP Carcinogen--- | | IARC |
|--|----------------------|-------------|------|
| | Known | Anticipated | |
| Octyl Bonded Silica Gel (126849-95-4) | No | No | None |

12. Ecological Information

Environmental Fate:

When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to biodegrade.

Environmental Toxicity:

This material is not expected to be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
--
Ingredient                                TSCA  EC    Japan
Australia
-----
-
Octyl Bonded Silica Gel (126849-95-4)     Exempt No    No    No
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-----\Chemical Inventory Status - Part 2\-----
--
Ingredient                                Korea  --Canada--
                                           DSL    NDSL   Phil.
-----
Octyl Bonded Silica Gel (126849-95-4)     No     No     No     No
-----
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-----\Federal, State & International Regulations - Part 1\-----
--
                                           -SARA 302-  -----SARA 313-----
--
Ingredient                                RQ     TPQ    List   Chemical
Catg.
-----
-
Octyl Bonded Silica Gel (126849-95-4)     No     No     No     No
-----
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-----\Federal, State & International Regulations - Part 2\-----
--
Ingredient                                CERCLA  -RCRA-  -TSCA-
                                           261.33  8 (d)
-----
Octyl Bonded Silica Gel (126849-95-4)     No     No     No
-----
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Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **0**

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

INTENDED FOR R & D USE ONLY.

NOT ON THE TSCA INVENTORY.

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Product Use:

Research and Development Use Only. Note: Chemical substances that are manufactured or imported in small quantities solely for the use in Research & Development are not subject to the notification requirements of the Toxic Substances Control Act (TSCA), 15 USC 2604 (h) et seq. Reference - 40 CFR 720.36 These products are not on the TSCA Inventory. They are used only in Research and Development.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

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