



# MATERIAL SAFETY DATA SHEET



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Sauereisen DKS-8 Cement

April 13, 2010

Vishay Measurements Group, Inc.  
Post Office Box 27777  
Raleigh, NC 27611

919-365-3800

CHEMTREC 1-800-424-9300 (U.S.)  
703-527-3887 (Outside U.S.)

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

## SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

| CAS NUMBER | CHEMICAL IDENTITY              | %      |
|------------|--------------------------------|--------|
| 14940-68-2 | Zirconium Silicate             | <68-78 |
| 7757-86-0  | Magnesium Phosphate Mono Basic | <11-18 |
| 1309-48-4  | Magnesium Oxide                | <10-15 |
| 14808-60-7 | Silica, Crystalline            | <1     |

## SECTION 3: HEALTH HAZARD DATA

### Routes of Entry:

**Inhalation:** Yes    **Skin:** Yes    **Ingestion:** Accidental

**Health Hazards (Acute and Chronic):** Chronic effects include silicosis, lung cancer, autoimmune and chronic kidney diseases, tuberculosis and non-malignant respiratory diseases.

**Carcinogenicity:**    NTP:    See Note  
IARC Monographs:    See Note  
OSHA Regulated:    See Note

**NOTE:** Silica is listed by IARC and NTP as having sufficient evidence to be a carcinogen in humans and in experimental animals for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1). There is evidence that exposure to respirable crystalline silica or silicosis is associated with incidence of scleroderma of the lungs.

**Signs and Symptoms of Exposure:**

**INHALATION:** May cause irritation of the nose. Excessive inhalation of nuisance dusts for long periods of time (10 years or more) may reduce breathing capacity and increase susceptibility of lung disease. Repeated inhalation of respirable free silica dust may cause delayed lung injury (silicosis).

**EYE CONTACT:** May cause burns to the eyes.

**SKIN CONTACT:** May cause skin irritation.

**INGESTION:** Not an expected route of entry.

**Conditions Generally Aggravated by Exposure:** None known.

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| <b>SECTION 4: EMERGENCY AND FIRST AID PROCEDURES</b> |
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**INHALATION:** If difficulty breathing, move to fresh air at once. Apply artificial respiration if breathing has stopped. Seek medical attention.

**EYE CONTACT:** Check for and remove contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**SKIN CONTACT:** Wash exposed area immediately with plenty of water for 15 minutes.

**INGESTION:** If swallowed, do NOT induce vomiting. Give large quantities of water. Seek medical attention. Never give anything by mouth to an unconscious person.

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| <b>SECTION 5: FIRE AND EXPLOSION HAZARD DATA</b> |
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**Flash Point (Method Used):** Not applicable.

**Flammable limits:** ELL: Not applicable UEL: Not applicable

**Extinguishing Media:** Water, carbon dioxide, dry chemical and foam.

**Special Firefighting Procedures:** Normal precautions are satisfactory.

**Unusual Fire and Explosion Hazards:** Many dusts and aerosols may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care to avoid causing dusting or misting.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Steps to be taken if material is released or spilled:** Sweep, scoop, or vacuum the discharged material. Respiratory protection should be worn at all times and skin contact should be avoided. Observe environmental regulations.

## SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

**Respiratory Protection:** Use dust respirators in compliance with OSHA Standard 1910.134. For emergency, a self-contained positive pressure breathing apparatus or full-face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR 1910.

**Ventilation:** Provide adequate general and local exhaust ventilation to meet PEL requirements. Provide workers with dust respirators for use in emergency or non-routine situations where dust levels may exceed PEL.

**Protective Gloves:** Suitable protective gloves (neoprene, butyl rubber, or viton) are recommended.

**Eye Protection:** Safety glasses with sideshields, chemical type goggles or face shield. Contact lenses should not be worn.

**Other Protective Clothing or Equipment:** Clean, long-sleeved work clothes are recommended.

**Work / Hygienic Practices:** Wash thoroughly before eating, smoking, or applying cosmetics. Thoroughly launder work clothes before reuse. Safety shower should be nearby.

## SECTION 8: HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Store in a cool, dry area. Keep container closed when not in use.

**Other Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing dust. Harmful if inhaled.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|   |           |
|---|-----------|
| <b>Boiling Point:</b>                         | NA        |
| <b>Vapor Pressure (mmHg):</b>                 | NA        |
| <b>Vapor Density (Air = 1):</b>               | NA        |
| <b>Specific Gravity (H<sub>2</sub>O = 1):</b> | 4.5 gm/cc |
| <b>Melting Point:</b>                         | NA        |
| <b>Evaporation Rate (BuAc = 1):</b>           | NA        |
| <b>Volatile Organic Compounds:</b>            | NA        |
| <b>Solubility in Water:</b>                   | NA        |

**Appearance and Odor:** White to tan granular powder.

**SECTION 10: STABILITY AND REACTIVITY DATA**

**Stability:** Stable.

**Conditions to Avoid:** NA

**Incompatibility (Materials to Avoid):** None.

**Hazardous Decomposition or By-products:** None.

**Hazardous Polymerization:** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Zirconium Silicate

|            |                             |
|------------|-----------------------------|
| OSHA PEL:  | 15 mg/m <sup>3</sup> (STEL) |
| ACGIH TLV: | 10 mg/m <sup>3</sup>        |
| OTHER:     | None listed                 |

Silica, Crystalline

|            |                              |
|------------|------------------------------|
| OSHA PEL:  | 0.1 mg/m <sup>3</sup> (STEL) |
| ACGIH TLV: | 0.025 mg/m <sup>3</sup>      |
| OTHER:     | None listed                  |

Magnesium Oxide

|            |                             |
|------------|-----------------------------|
| OSHA PEL:  | 10 mg/m <sup>3</sup> (STEL) |
| ACGIH TLV: | 10 mg/m <sup>3</sup>        |
| OTHER:     | None listed                 |

**SECTION 12: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of in accordance with local, state, and federal environmental regulations.

**SECTION 13: TRANSPORTATION INFORMATION**

| SHIPPING NAME | CLASS PACKING GROUP | UN NUMBER |
|---------------|---------------------|-----------|
|---------------|---------------------|-----------|

Not regulated for transportation.

**SECTION 14: REGULATORY INFORMATION**

**SECTION 313 SUPPLIER NOTIFICATION:**

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313 Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

| <b>CAS NUMBER</b> | <b>CHEMICAL NAME</b> | <b>% BY WEIGHT</b> |
|-------------------|----------------------|--------------------|
| None listed       |                      |                    |

**TSCA NOTIFICATION:**

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

**SECTION 15: OTHER INFORMATION**

To the best of our knowledge, the information provided above meets the requirements of the United States Occupational Safety and Health Act and regulations established under 29 CFR 1910.1200 (g)(2)(c)(1)-(4) for a mixture of hazardous chemicals which has not been tested as a whole. The data provided on this Material Safety Data Sheet is from manufacturers of the original components. Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.