

# SAFETY DATA SHEET



Revision: 2.0 Date: 16.07.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product Name Sauereisen DKS-8 Cement  
Chemical Name Mixture  
CAS No. Mixture  
EINECS No. Mixture  
REACH Registration No. None assigned.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products.  
Uses Advised Against None known.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification VISHAY MEASUREMENTS GROUP, INC.  
Post Office Box 27777  
Raleigh, NC 27611  
USA  
Telephone 919-365-3800  
Fax 919-365-3945  
E-Mail (competent person) mm.us@vishaypg.com
- 1.4 Emergency telephone number** 1-800-424-9300  
CHEMTREC

## 2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1 GHS Classification** Not classified as dangerous for supply/use.
- 2.2 Label elements** GHS Classification
- Product Name Sauereisen DKS-8 Cement
- Hazard Pictogram(s) None assigned.
- Signal Word(s) None assigned.
- Hazard Statement(s) None assigned.
- Precautionary Statement(s) None assigned.
- Additional Information** None.
- 2.3 Other hazards** May form flammable dust clouds in air.

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## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

GHS Classification

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Zirconium silicate	< 78	14940-68-2	14940-68-2	None assigned	Not classified
Magnesium hydrogenphosphate	< 18	1308-38-9	231-823-5	None assigned	Not classified
Magnesium oxide	<15	1309-48-4	215-171-9	None assigned	Not classified
Crystalline silica	< 1	14808-60-7	238-878-4	None assigned	STOT RE 1; H372

H372: Causes damage to organs through prolonged or repeated exposure.

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Brush off loose particles from skin. Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth. Do not induce vomiting. If symptoms develop, obtain medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Mechanical irritation of the respiratory tract. Mechanical irritation of the skin and eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

## 5. SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

May form flammable dust clouds in air.

### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. See Section: 8. Avoid breathing dust.

### 6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

### 6.3 Methods and material for containment and cleaning up

Sweep up spilled substance but avoid making dust. Transfer to a container for disposal.

### 6.4 Reference to other sections

See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid breathing dust. Avoid generation of dust. Avoid contact with skin, eyes or

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- 7.2 Conditions for safe storage, including any incompatibilities**  
Storage temperature  
Storage life  
Incompatible materials
- 7.3 Specific end use(s)**
- clothing. Ensure adequate ventilation. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take precautionary measures against static discharge.  
Store in a cool/low-temperature, well-ventilated (dry) place. Keep container closed.  
Ambient.  
Stable under normal conditions.  
None known.  
PC14 Metal surface treatment products, including galvanic and electroplating products. See Section: 1.2

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Quartz (SiO <sub>2</sub> )	14808-60-7	-	0.05	-	-	NIOSH
Quartz (SiO <sub>2</sub> )	14808-60-7	-	30/(%silica+2) total dust 10/(%silica+2) respirable dust	-	-	OSHA

Note: OSHA 1910.1000 TABLE Z-1 and Z-3/ NIOSH

(1): Total dust

(2): Inhalable dust

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

Not established.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment.

#### 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe dust. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.

Eye/ face protection



Wear eye protection with side protection (EN166). Contact lenses should not be worn.

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Neoprene or Butyl rubber.

Body protection: Wear dust-resistant protective clothing. Recommended: Wear work clothes with long sleeves.

Respiratory protection



Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.

Thermal hazards

Not applicable.

#### 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

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## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	White to tan powder
Odour	No odour
Odour threshold	Not available.
pH	Not established.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	4.5 (H <sub>2</sub> O=1)
Solubility(ies)	Not applicable.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information VOC: 0%

## 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Avoid generation of dust.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition product(s)	None known.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects (Substances in preparations / mixtures)

#### Acute toxicity

Ingestion

Based upon the available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

Inhalation

Based upon the available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 5 mg/l.

Skin Contact

Based upon the available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

**Skin corrosion/irritation**

Based upon the available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based upon the available data, the classification criteria are not met.

**Respiratory or skin sensitization**

Based upon the available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based upon the available data, the classification criteria are not met.

**Carcinogenicity**

Based upon the available data, the classification criteria are not met.

**Reproductive toxicity**

Based upon the available data, the classification criteria are not met.

**STOT - single exposure**

Based upon the available data, the classification criteria are not met.

**STOT - repeated exposure**

Based upon the available data, the classification criteria are not met.

**Aspiration hazard**

Based upon the available data, the classification criteria are not met.

### 11.2 Other information

NTP Report on Carcinogens

Not listed

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IARC Monographs

Silicon dioxide (CAS# 14808-60-7) - Group 1: Carcinogenic to humans.

## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Based upon the available data, the classification criteria are not met. Estimated Mixture LC50 >100 mg/l (Fish)
12.2	<b>Persistence and degradability</b>	The product shows no evidence for biodegradability in soil.
12.3	<b>Bioaccumulative potential</b>	The product has no potential for bioaccumulation.
12.4	<b>Mobility in soil</b>	The product is predicted to have low mobility in soil.
12.5	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Other adverse effects</b>	None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation.
13.2	<b>Additional Information</b>	Dispose of contents in accordance with local, state or national legislation.

## 14. SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

		<b>ADR/RID / IMDG / IATA</b>
14.1	<b>UN number</b>	Not classified as dangerous for transport.
14.2	<b>UN proper shipping name</b>	Not classified
14.3	<b>Transport hazard class(es)</b>	Not classified
14.4	<b>Packing group</b>	Not classified
14.5	<b>Environmental hazards</b>	Not classified as a Marine Pollutant / Environmentally hazardous substance
14.6	<b>Special precautions for user</b>	Not applicable.
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
14.8	<b>Additional Information</b>	None.

## 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>National regulations</b> OSHA Occupational Safety and Health Standards	None
15.1.2	<b>European regulations</b> Substances of Very High Concern (SVHCs) Wassergefährdungsklasse (Germany)	None. Water hazard class: 1
15.2	<b>Chemical Safety Assessment</b>	Not available.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**References:** Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for Magnesium hydrogen phosphate (CAS No. 7757-86-0) and the Classification and Labelling Inventory for Zirconium silicate (CAS No. 14940-68-2), Magnesium oxide (CAS No. 1309-48-4) and Crystalline silica (CAS No. 14808-60-7).

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration

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PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
OSHA	The Occupational Safety & Health Administration
NIOSH	National Institute for Occupational Safety and Health

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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## Annex to the extended Safety Data Sheet (eSDS)

No information available.

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