

SAFETY DATA SHEET

Revision: 1.0 Date: 08.04.2014



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),
1272/2008 (CLP) & 453/2010



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Sauereisen DKS-8 Cement

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 Recommended use of the chemical and restrictions on use	
Identified Use(s)	PC14 Metal surface treatment products, including galvanic and electroplating products
Uses Advised Against	None known.
1.3 Supplier's details	
Company Identification	VISHAY MEASUREMENTS GROUP UK LTD Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom
Telephone	+44 (0) 1256 462131
Fax	+44 (0) 1256 471441
E-Mail (competent person)	mm.uk@vishaypg.com
1.4 Emergency Phone No.	(00-1) 703-527-3887 CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Directive 67/548/EEC & Directive 1999/45/EC	Xi; R36/38 R43 N; R50/53
2.2 Label elements	
Product Name	Directive 67/548/EEC & Directive 1999/45/EC Sauereisen DKS-8 Cement
Hazard Symbol	  Xi N
Risk Phrases	R43: May cause sensitization by skin contact. R36/38: Irritating to eyes and skin. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39: Wear suitable gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately

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(show the label where possible).

S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

2.3 Other hazards

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Substances in preparations / mixtures

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
Zirconium Silicate	<68–78	14940-68-2	14940-68-2	Not classified
Magnesium Hydrogenphosphate	<11–18	1308-38-9	231-823-5	Not classified
Magnesium Oxide	<10–15	1309-48-4	215-171-9	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 1; H410
Silica Crystalline	<1	14808-60-7	238-878-4	Acute Tox. 4; H332 STOT RE 2; H373

Directive 67/548/EEC & Directive 1999/45/EC

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
Zirconium Silicate	<68–78	14940-68-2	14940-68-2	Not classified
Magnesium Hydrogenphosphate	<11–18	1308-38-9	231-823-5	Not classified
Magnesium Oxide	<10–15	1309-48-4	215-171-9	Xi; R36/37/38: Irritating to eyes, respiratory system and skin. R43: May cause sensitization by skin contact. N; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Silica Crystalline	<1	14808-60-7	238-878-4	Xn; R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Apply artificial respiration if breathing has ceased or shows signs of failing. If exposed or concerned: Get medical attention/advice.

Skin Contact

IF ON SKIN: Wash immediately with water. Continue to wash the affected area for at least 15 minutes.

Eye Contact

IF IN EYES: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Get medical advice/attention.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Make victim drink plenty of water. Do not give anything by mouth to an unconscious person. Allow the patient to drink 5 - 10 g ascorbic acid (not effervescent tablets) dissolved in water. This dose can be repeated several times. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of the skin and eyes. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

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

None known.

5.2 Special hazards arising from the substance or mixture

Dust clouds are sensitive to ignition by electrostatic discharge.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Avoid run off to waterways and sewers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

6.2 Environmental precautions

Avoid release to the environment. Do NOT wash away into sewer. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

6.3 Methods and material for containment and cleaning up

Sweep up spilled substance but avoid making dust. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste (2008/98/EEC).

6.4 Reference to other sections

See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Dust clouds are sensitive to ignition by electrostatic discharge. Avoid generation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

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Storage temperature: Ambient.
Storage life: Stable under normal conditions.
Incompatible materials: None known.
7.3 Specific end use(s): PC14 Metal surface treatment products, including galvanic and electroplating products

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 ³)	STEL (ppm)	STEL (mg/m ³)	Note
Magnesium Oxide;	inhalable aerosol	1309-48-4	-	10	-	-	WEL
	respirable aerosol		-	4	-	-	
Silica Crystalline: respirable		14808-60-7	-	0.1	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value: Not established.
8.1.3 PNECs and DNELs: Not established.

DNEL (Magnesium Hydrogenphosphate)	Oral	Inhalation	Dermal
Worker - Long Term - Systemic effects	-	7.07 mg/m ³	-
Consumer- Long Term - Systemic effects	-	3.04 mg/m ³	-

PNEC	Magnesium Hydrogenphosphate
Aquatic Compartment	PNEC STP 50 mg/L

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

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

Wear work clothes with long sleeves. Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Wash thoroughly after handling.

Eye/ face protection



Wear goggles giving complete protection to eyes to protect against liquid splashes (EN166). Contact lenses should not be worn.

Skin protection



Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Neoprene, Butyl rubber or Viton.

Respiratory protection



Do not use in areas without adequate ventilation. In case of inadequate ventilation wear respiratory protection.

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 ₂ 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 available.
Oxidising properties	Not oxidising.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity	If aspiration is suspected obtain immediate medical attention.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Dust clouds are sensitive to ignition by electrostatic discharge.
10.4 Conditions to avoid	Avoid generation of dust.
10.5 Incompatible materials	None.
10.6 Hazardous decomposition product(s)	None.

11. SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Ingestion	Not classified.
Inhalation	Not classified.
Skin Contact	Skin Sens. 1; May cause an allergic skin reaction. (Magnesium Oxide)
Eye Contact	Not classified.
Irritation	Skin Irrit. 2; Causes skin irritation. (Magnesium Oxide) Eye Irrit. 2; Causes serious eye irritation. (Magnesium Oxide)

Corrosivity

Not classified.

Sensitisation

Not classified.

Repeated dose toxicity

Not classified.

Carcinogenicity

Not classified.

Mutagenicity

Not classified.

Toxicity for reproduction

Not classified.

11.2 Other information

None.

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12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	No data.
12.2	Persistence and degradability	The product shows no evidence for biodegradability in soil.
12.3	Bioaccumulative potential	The product has no potential for bioaccumulation.
12.4	Mobility in soil	The product is predicted to have low mobility in soil.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	This material and its container must be disposed of as hazardous waste (2008/98/EEC). Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.
13.2	Additional Information	Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

	ADR/RID / IMDG / IATA	
14.1	UN number	UN 3077
14.2	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MAGNESIUM OXIDE)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Marine Pollutant / Environmentally hazardous substance
14.6	Special precautions for user	Irritant effect on eyes, skin and air passages.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
14.8	Additional Information	None.

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or Restrictions On Use	None.
15.1.2	National regulations	
	Germany	Water hazard class: 2
15.2	Chemical Safety Assessment	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 Hydrogenphosphate (CAS# 7757-86-0), the Classification and Labelling Inventory for Zirconium Silicate (CAS# 14940-68-2), Magnesium Oxide (CAS# 1309-48-4) and Silica Crystalline (CAS# 14808-60-7).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Xi; R36/38	Threshold Calculation
R43	Threshold Calculation
N; R50/53	Summation Calculation

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LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
ATEmix	Acute Toxicity Estimate Mixture Calculation

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.