

Seitz® Filter Sheet K-Range

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Section 1:	Identification of the Substance / Mixture and of the Company / Undertaking
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1.1. Product identifier

Product name : Seitz® Filter Sheet
Trade name : EKS, EK 1, EK, KS 50, KS 80,
K100, K150, K200, K250, K300, K700, K800, K900
Product type : Solid matter

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Product for solid and liquid separation

Uses advised against
None known

1.3 Details of the supplier of the safety data sheet

Manufacturer : Pall Filtersystems GmbH
Planiger Straße 137, 55543 Bad Kreuznach / Germany
Tel.: +49 671 8822-0
Fax: +49 671 8822-200
e-mail: kundenservice@europe.pall.com

Supplier : Pall International SARL
Av. De Tivoli, 1700 Fribourg, Switzerland
Tel.: +41 26 3505-300
Fax: +41 26 3505-353
e-mail: infoch@europe.pall.com
Web: www.pall.com

e-mail address of person responsible for this MSDS : reach_coordinator@pall.com

1.4 Emergency Telephone Number

National advisory body / Poison Centre

Telephone number: CHEMTREC, U.S.: 1-800-424-9300
International: +1-703-527-3887

Hours of operation : 24 hours/day, 7 days/week

Country of Origin : Germany

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Product definition : Article

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is not classified as hazardous.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word

Hazard statements : No known significant effects or critical hazards.

Prevention : Not applicable

Response : Not applicable

Storage : Not applicable

Disposal : Not applicable

Supplemental label elements : Not applicable

Annex XVII - : Not applicable
Restrictions on the manufacture,
placing on the market and use of
certain dangerous substances,
mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable

Tactile warning of danger : Not applicable

2.3 Other hazards

Other hazards which do not result in classification : The product contains no hazardous substances according to the CLP Regulation (EC) No. 1272/2008.
The values of crystalline silica in the form of quartz and cristobalit are below the detection limit of 0.1 %.

Section 3: Composition / Information on Ingredients

3.2 Mixtures : Article

Product / Ingredient Name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Typ
Cellulose	EG: 265-995-8 CAS: 65996-61-4	40 - 70	exempted under REACH Annex V Article 2(7)(b)	-
Perlite	CAS: 93763-70-3	0 - 50	exempted under REACH Annex V Article 2(7)(b)	-
Kieselguhr, natural	CAS: 61790-53-2 EG 212-293-4	0 - 60	exempted under REACH Annex V Article 2(7)(b)	-

Any concentration shown as a range is to protect confidentiality or is due to production variations.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

Section 4: First aid measures

4.1 Description of first aid measures

- Eye contact : Unlikely route of exposure if used under recommended conditions. Wash with water, continuing for 10 minutes. Remove contact lenses and raise eyelid first. Seek medical attention if adverse symptoms are experienced.
- Inhalation : Unlikely route of exposure if used under recommended conditions. If dust is inhaled and adverse symptoms experienced, seek medical attention.
- Skin contact : Unlikely route of exposure if used under recommended conditions. If experiencing irritation, wash with soap and water. Seek medical attention if irritation or other symptoms are experienced.
- Ingestion : Unlikely route of exposure if used under recommended conditions. Rinse mouth with water and give plenty of water to drink. Do not induce vomiting unless instructed to do so by medical personnel.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact : No known significant effects or critical hazards.
- Inhalation : No known significant effects or critical hazards.
- Skin contact : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.

Over-exposure signs / symptoms

- Eye contact : No known significant effects or critical hazards.
- Inhalation : No known significant effects or critical hazards.
- Skin contact : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. However, this is an unlikely exposure scenario.
- Specific treatments : No specific treatment.

Section 5:	Firefighting measures
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5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide, carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters : No special precaution is required.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) to prevent skin and eye contact. Stay in danger area only with suitable impervious full protective suit.

Section 6:	Accidental Release Measures
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6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : - Avoid dust formation
- Avoid breathing dust

6.2 Environmental precautions

Do not discharge into drains, surface water, groundwater or soil.

6.3 Methods and Materials for Containment and cleaning up

- Pick up and transfer to suitable containers.
- Avoid dust formation.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

Section 7: Handling and Storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

7.3 Specific end use(s)

- Recommendations : Not available
- Industrial sector specific solutions : Not available

Section 8: Exposure controls / Personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control Parameters

Occupational exposure limits

Product / Ingredient name	Exposure limit values
Diatomaceous earth	TRGS900 AGW (Germany, 12/2014) TWA: 4 mg/m ³ 8 hours. Form: respirable dust EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 1.2 mg/m ³ 8 hours. Form: respirable dust

Recommended monitoring-procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and / or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs / DMELs : No DNELs / DMELs available

PNECs : No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands after handling the products, before eating, smoking and using the lavatory and at the end of the working period.

Eye / face protection : Not required under intended use.

Skin protection

Hand protection : When handling the product mechanical gloves should be worn if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9:	Physical and Chemical Properties
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9.1 Information on basic physical and chemical properties

Appearance

Physical stated	: Solid [cardboard]
Colour	: White to yellowish
Odour	: Odourless; possibly slight paper odour
Odour threshold	: Not available
pH-value	: Not applicable
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)	: Not available
Upper / lower flammability or explosive limits	: Not available
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: ca. 0.3 g / cm ³
Solubility(ies)	: Not available
Partition coefficient: n-octanol/- water	: Not applicable
Auto-ignition temperature	: >200 °C
Decomposition temperature	: Not available
Viscosity	: Not applicable
Explosive properties	: Not available
Oxidising properties	: Not available

9.2 Other Information

No additional information.

Section 10:	Stability and Reactivity
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| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : No specific data. |
| 10.5 Incompatible materials | : Reactive or incompatible with the following materials: oxidising materials and acids. |
| 10.6 Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11:	Toxicological Information
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11.1 Information on toxicological effects

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| <u>Acute toxicity</u> | : There is no data available. |
| <u>Irritation / Corrosion</u> | : There is no data available. |
| <u>Sensitisation</u> | : There is no data available. |
| <u>Mutagenicity</u> | : There is no data available. |
| <u>Carcinogenicity</u> | : There is no data available. |
| <u>Reproductive toxicity</u> | : There is no data available. |
| <u>Teratogenicity</u> | : There is no data available. |
| <u>Specific target organ toxicity (single exposure)</u> | : There is no data available. |
| <u>Specific target organ toxicity (repeated exposure)</u> | : There is no data available. |
| <u>Aspiration hazard</u> | : There is no data available. |
| Information on the likely routes of exposure | : Dermal contact |

Seitz® Filter Sheet K-Range**Page 10 / 13**Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposureShort term exposure

Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.

Potential chronic health effects

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Other information : Not available.

Section 12: Ecological Information

- 12.1 Toxicity** : There is no data available.
- 12.2 Persistence and degradability** : There is no data available.
- 12.3 Bioaccumulative potential** : There is no data available.
- 12.4 Mobility in soil**
- Soil / water partition coefficient (K_{oc}) : Not available.
- Mobility : Not available.
- 12.5 Results of PBT and vPvB assessment**
- PBT : Not applicable.
- vPvB : Not applicable.
- 12.6 Other adverse effects** : No known significant effects or critical hazards.

Section 13: Disposal Considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

- Methods of disposal** : Pall depth filters as supplied originally may be disposed of or composted with normal house garbage in accordance with official local regulations. This does not refer to the depth filter sheet after its use. Here, the influence of the filtered product has to be taken into consideration. The waste code No. is to be individually fixed with the waste disposal company.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in an appropriate manner. Empty containers or liners may retain some product residues.

Section 14: Transport Information

	ADR / RID	ADN	IMDG	IATA
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group				
14.5 Environmental hazards	No	No	No	No
Additional information	-	-	-	-

14.6 Special precautions for user : No special precautions.

14.7 Transport in bulk : Not available
According to Annex II of MARPOL 73/78
and the IBC-Code

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV – List of substances subject to authorisation

Annex XIV : None of the components are listed.

Substances of very high concern : None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable

Other EU regulations

Europe inventory : Not determined

Seveso Directive : This product is not controlled.

National regulations

Storage class (TRGS 510) : 11

Hazard class for water : not hazardous for water

15.2 Chemical Safety Assessment

: Chemical safety assessments for this product have not been performed.

Section 16: Other Information

Abbreviations and acronyms :	ATE	=	Acute Toxicity Estimate
	CLP	=	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL	=	Derived Minimal Effect Level
	DNEL	=	Derived No. Effect Level
	EUH-statement	=	CLP-specific Hazard statement
	PBT	=	Persistent, Bioaccumulative and Toxic
	PNEC	=	Predicted No Effect Concentration
	RRN	=	REACH Registration Number
	vPvB	=	Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 (CLP / GHS)

Classification	Justification
Not classified	

History

Revised Section(s) : 1.2 - Correction

Notice to reader

The particulars given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on the latest state of our knowledge and information. In particular, they serve the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. They do not constitute any guarantee of product quality and / or quality features. The particulars given in this Material Safety Data Sheet are not required in accordance with article 31 and annex II of the Regulation (EC) No. 1907/2006. They merely serve the purpose of providing sufficient information on the voluntary basis with a view to ensure the safe utilization of such product.

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