

SAFETY DATA SHEET

Date of Issue 11 October 2022

GIS-00006 Version 4.0

Replaced version 3.1

SECTION 1 – Identification of the Substance / Mixture and of the Company / Undertaking

1.1. Product Identifier

Product name(s): Pall activated calcined diatomaceous earth filter aids

Example Part Number(s): Pall Kieselguhr Spezial (e)

Pall Kieselguhr Super (e)

Pall Kieselguhr SF

(For additional local descriptions and part numbers please see Addendum 1)

ECHA REACH registration number: 01-2119488518-22-0001

Country of Origin: Germany

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

The filter aids detailed above are intended for food and beverage processing applications. For professional use only in line with Pall instructions for use.

Do not contact with acids.

For further information on Pall products, please visit Pall at <https://www.pall.com/en/about-pall.html>

1.3 Details of the supplier of the safety data sheet

Supplier: Pall Filtersystems GmbH

Planiger Str. 137

D-55543 Bad Kreuznach

Germany

Contact: Tele: +49(0)67188763819

E mail: jan_ortmann@europe.pall.com

1.4 Emergency Telephone Number

National advisory centre / Poison Centre: n/a for Germany

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Other: CHEMTREC, US: 1-800-424-9300
CHEMTREC, International: +1703-527-3887

SECTION 2 - Hazards Identification

Product definition: Substance (white powder)

2.1 Classification of the substance or mixture

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

Inhalation: Specific target organ toxicity - repeated exposure, 2, H373

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Possibility of irreversible effects by repeated inhalation of high concentrations of alveolar dust (silicosis).

2.2 Label elements

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

Hazard pictograms (CLP):



Signal word (CLP):

Warning

Hazard statements (CLP): H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements (CLP): P260: Do not breathe dust.
P314: Get medical advice/ attention if you feel unwell.
P501: Dispose of contents/ container to an approved waste disposal plant.
P502: Refer to manufacturer/ supplier for information on recovery/ recycling.

Special packaging requirements: None specified.

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2.3 Other hazards

Adverse physicochemical, human health and environmental effects

Possibility of irreversible effects by repeated inhalation of high concentrations of alveolar dust (silicosis).

Other hazards which do not result in classification:

Possible effects on health:	Possible transient irritation of the eyes and respiratory tract (mechanical effect of dust).
Effects on the environment:	As supplied by Pall, this product does not present a specific risk to the environment.
Physical and chemical hazards:	No special risk of ignition or explosion.

SECTION 3 – Composition / Information on Ingredients

3.1 The filter aids detailed in Section 1 are comprised of the following materials:

Chemical Name	EC Number	CAS Number	Percentage in Composition	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Activated soda ash flux-calcined diatomaceous earth	272-489-0	68855-54-9	Up to 100%	Not classified

Hazardous impurities - Various forms of silica:

Chemical Name	EC Number	CAS Number	Percentage in Composition	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cristobalite (Impurity)	238-455-4	14464-46-1	approx.. 65%	Not classified
Respirable Crystalline silica dust (<10 µm; impurity)			1 – 10%	STOT RE 1, H372

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Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4 - First Aid Measures
4.1 First aid measures

- General: Call a poison centre or doctor if you feel unwell.
- Eye Contact: Rinse carefully with plenty of water with the eyelids held wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice.
- Inhalation: Remove the victim from the contaminated area and make them breathe fresh air. In the event of persistent symptoms seek medical advice
- In case of significant* inhalation of dust: Move the person outside and keep them in a position where they can breathe comfortably. If the person is fully conscious, make them rinse their throat with plenty of drinking water. Make the victim blow their nose. In the event of persistent symptoms – seek medical advice.
- Skin Contact: Wash with soap and plenty of water. Seek medical advice if an irritation appears.
- Ingestion: If the person is conscious, rinse mouth with water. If you feel unwell, seek medical advice.
- 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

After inhalation:	If large quantities of dust are inhaled, possible irritation of breathing passages with coughing.
After eye contact:	In the event of contact with the eyes: irritation, in particular in the event of prolonged contact.
Chronic symptoms:	Breathing dust containing crystalline silica over a long period of time may cause harmful

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	pulmonary effects. Crystalline silica (cristobalite) dust is a proven cause of silicosis, a progressive and sometimes fatal lung disease.
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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 - Fire Fighting Measures
5.1 Extinguishing media

Suitable extinguishing media: Non-flammable product. Use appropriate means to fight fires in the vicinity.

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products in the event of fire:

The product is not combustible. In case of fire, the combustion of packaging materials could lead to the formation of carbon oxides and smoke.

5.3 Advice for firefighters

Precautionary measures fire: Keep unprotected and unauthorised persons away from the danger area.

Protection in the event of a fire: Do not enter the danger zone without suitable chemical protection clothing and self-contained breathing apparatus.

SECTION 6 - Accidental Release Measures
6.1 Personal precautions, protective equipment, and emergency procedures
For non-emergency personnel

Protective equipment: Use personal protective equipment. Avoid inhaling the dust.

Measures in case of dust release: Avoid inhaling the dust. Ensure adequate ventilation. Avoid crushing the product, and the formation and dissemination of dust in the atmosphere.

For emergency responders Protective equipment:
Use personal protective equipment. Avoid inhaling the dust.

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6.2 Environmental precautions

Avoid dispersion by draughts. Prevent the product entering the sewers

6.3 Methods and Materials for containment and cleaning up

Collect and remove spillage / debris without creating dust.

Keep in suitable closed containers and for disposal.

Avoid dispersion of the dust in the air (e.g. do not remove the dust from surfaces with compressed air).

6.4 Reference to other sections

For information on handling, see section 7.

For information on personal protective equipment, see section 8.

For information on disposal, see section 13.

SECTION 7 – Handling and Storage

7.1 Precautions for safe handling

Additional hazards when processed: Provide anti-dust equipment or method of unloading and handling.

Precautions for safe handling: Do not eat, smoke or drink in the work area.
Avoid dust formation. Avoid the accumulation of dust in confined spaces.
Approved respiratory protective device and goggles recommended (see section 8).

Hygiene measures: Avoid inhaling the dust. Wash hands thoroughly after use.
Wash hands after handling.
Remove contaminated clothing and protection equipment before entering a place where food is served or consumed. Do not eat, drink or smoke when using this product. Maintain good workplace hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Avoid creation of a dust cloud and prevent dispersion by the wind.

Storage conditions: Keep the container tightly closed in a dry and well-ventilated area.

Incompatible materials: Hydrofluoric Acid.

Packaging materials:
Paper bags.

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Polypropylene bags.
Soluble bags in cellulose.

7.3 Specific end use(s)

Filter aid for food processing

Pall recommends a visual inspection prior to use. Do not use if the product or packaging is damaged (please contact Pall for further advice).

Please also consult the Pall instructions for use information on the product prior to use.

SECTION 8 - Exposure Controls/Personal Protection
8.1 Control parameters

Cristobalite (CAS number 14464-46-1)		
EU	Local name	Silica crystalline (Cristobalite)
EU	Notes	(Year of adoption 2003)
EU	Regulatory reference	SCOEL Recommendations
France	Local name	Cristobalite (Silices cristallines)
France	VME (mg/m ³)	0.05 mg/m ³ (alveolar fraction)
France	Note (FR)	Valeurs réglementaires contraignantes
France	Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)
United Kingdom	WEL TWA (mg/m ³)	0.1 mg/m ³

Respirable Crystalline silica dust		
EU	Obligatory regulatory values TLV (mg / m ³) 0.1 mg/m ³	
EU	Regulatory reference	(UE) 2017/2398
United Kingdom	WEL TWA (mg/m ³)	0.1 mg/m ³

Activated calcined diatomaceous earth. (CAS number 68855-54-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	0.33 mg/m ³
DNEL/DMEL (General population)	

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Long-term - systemic effects, oral	18.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.08 mg/m ³
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

8.2 Exposure controls

Appropriate engineering controls:	Do not breathe dust.
Hand protection:	Waterproof gloves.
Eye protection:	Goggles with lateral protection (according to standard EN 166).
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	Wear respiratory protection. Dust/aerosol filter, type P3 (in accordance with standard EN 143).
Thermal hazard protection:	None.
Environmental exposure controls:	Avoid release to the environment.
Consumer exposure controls:	Wash hands after working with the product.
Other information:	Provide anti-dust handling techniques (and facilities).

SECTION 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Powder
Colour:	White
Odour:	Odourless
Odour threshold:	No data available
pH-value:	8 - 11 (10%)
Relative evaporation rate (butylacetate=1):	Not applicable (mineral product)
Melting point:	> 1000 °C
Freezing point:	No data available
Boiling point:	Not applicable (mineral product)
Flash point:	Not applicable (mineral product)
Auto-ignition temperature:	Not applicable (mineral product)
Decomposition temperature:	Not applicable (mineral product)
Flammability (solid, gas):	Non-flammable product
Explosive limits:	Not applicable (mineral product)
Vapour pressure:	Not applicable (mineral product)
Relative vapour density at 20 °C:	No data available

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Relative density:	No data available
Density:	220 - 250 kg/m ³ according to the quality
Solubility:	Negligible
Log Pow:	Not applicable (mineral product)
Viscosity, kinematic:	Not applicable (mineral product)
Viscosity, dynamic:	Not applicable (mineral product)
Explosive properties	Nonexplosive
Oxidising properties	Not classified as an oxidant

9.2 Other Information

No additional information available

SECTION 10 – Stability and Reactivity
10.1 Reactivity

Reactivity relating to the substances, containers and contaminants to which the substance or mixture may be exposed during their transport, storage and use: No data available.

10.2 Chemical stability

The product is stable in normal conditions of use. Stability of the substance or mixture under normal and predictable storage and handling room conditions in terms of temperature and pressure: Chemically stable under standard room conditions (room temperature).

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid

Avoid suspension of dust in the air. Store protected from moisture (to retain the technical properties of the product).

10.5 Incompatible materials

Families of substances or mixtures, or specific substances, such as water, air, acids, bases, or oxidising agents, with which the substance or the mixture could react and create a hazardous situation:

Hydrofluoric acid.

10.6 Hazardous decomposition products

Known dangerous decomposition products and products which may be reasonably predictable as such following use, storage, pouring and heating: This product does not decompose under normal conditions. Decomposition products in case of fire: consult section 5.2.

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SECTION 11 - Toxicological Information

The information in this section contains generic advice and guidance in respect of the unused filter as supplied. Consult SDS details of the product being filtered for specific advice and recommendations.

11.1 Information on toxicological effects

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified
Acute toxicity:	Not classified

Activated calcined diatomaceous earth. (CAS number 68855-54-9)	
LD50 oral rat	DL50 rat > 2.000 mg/kg (OECD Method Guideline 401) Results obtained on a similar product.
LC50 inhalation rat (mg/l)	CL50 rat > 2.6 mg/L (OECD method, Guideline 403) Results obtained on a similar product.
Skin corrosion/irritation:	Not classified Not irritating to the skin. Test on a human skin model. pH: 8 - 11 (10%)
Serious eye damage/irritation:	Not classified Inhalation - No reported effect. Results obtained on a similar product. Contact with the skin - Not skin sensitising (OECD method, Guideline 429).
Germ cell mutagenicity:	Not classified By analogy with a comparable product - In Vitro - negative (OECD method, Guideline 471).
Carcinogenicity:	Not classified

Respirable Crystalline silica dust	
Additional information	Breathable crystalline silica fractions DFG MAK Committee (Germany) - Carcinogen - Category I, IARC: Group 1 - carcinogenic for humans. Respect of the exposure limits for the breathable fractions of crystalline silica can prevent silicosis and consequently lung cancer. Long-term exposure to breathable fractions of diatomaceous earth may result in irreversible effects on the lungs. Silicosis is its main effect before lung cancer.

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Reproductive toxicity:	Not classified No data available
STOT-single exposure:	Not classified
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	Not classified
Potential adverse human health effects and symptoms:	Possibility of irreversible effects by repeated inhalation of high concentrations of alveolar dust (silicosis).

11.2 Information on likely routes of exposure

Dermal contact:	No data available.
Eyes contact:	In the event of contact with the eyes: irritation, in particular in the event of prolonged contact.
Inhalation:	Dust may cause respiratory irritation.
Ingestion:	No data available.

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SECTION 12 - Ecological Information (manufacturer provided information)

12.1 Toxicity

Ecology – general: No damage to the environment is known or foreseeable under normal conditions of use.

Activated calcined diatomaceous earth. (CAS number 68855-54-9)	
LC50 Fish	No effect up to the limit of solubility
EC50 Daphnia	No effect up to the limit of solubility.
EC50 72hr algae (l)	No effect up to the limit of solubility
NOEC (additional information)	Micro-organisms – NOEC, 3h > 1.000 mg/l (OECD method, Guideline 209)

12.2 Persistence and degradability

Activated calcined diatomaceous earth. (CAS number 68855-54-9)	
Persistence and degradability	Not applicable – inorganic substance

12.3 Bioaccumulative potential

Activated calcined diatomaceous earth. (CAS number 68855-54-9)	
Log Pow	Not applicable (mineral product).
Bioaccumulative potential	Not applicable – inorganic substance.

12.4 Mobility in soil - No additional information available

12.5 Results of PBT and vPvB assessment

Activated calcined diatomaceous earth. (CAS number 68855-54-9)	
Results of PBT assessment	Not applicable – inorganic substance

12.6 Other adverse effects - No additional information available

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SECTION 13 - Disposal Information
13.1 Waste treatment methods

Waste treatment methods:	Unused product (unchanged): may be permitted for landfill Recycle packaging materials wherever possible. Used or contaminated product: must be disposed of taking into account the nature of all contaminants present. In all cases: Dispose of in accordance with applicable local / national legislation and regulations.
Additional information:	It is recommended to avoid or reduce waste production as much as possible. The disposal of this product, solutions and by-products shall comply with the legal requirements for environmental protection and waste disposal and the requirements of all local authorities at all times. Dispose of materials using a licensed waste disposal contractor. Recyclable / reuse products if possible. Do not evacuate untreated waste into the sewers. Only dispose of this product and its container by taking all standard precautions. Handle uncleaned and non-rinsed containers with care. Empty containers or liners may retain product residues. Avoid dispersing spilled materials, as well as their leakage, and any contact with the soil, waterways, drains and sewers.
Ecology - waste materials:	Avoid release to the environment.

13.2 Packaging

Bagging: Plastic (polyethylene)

Box: Cardboard

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled where suitable arrangements and facilities exist. Incineration or landfill should only be considered where re-cycling is not feasible.

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SECTION 14 - Transport Information

The clean and un-used filter aid, as supplied in its original packaging, is not classified as dangerous goods under ADR, RID, IMDG or IATA regulations.

14.1 UN-Number	Not regulated for transport
14.2. UN proper shipping name	
Proper Shipping Name (ADR):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable
14.3. Transport hazard class(es)	
<u>ADR</u>	
Transport hazard class(es) (ADR):	Not applicable
<u>IMDG</u>	
Transport hazard class(es) (IMDG):	Not applicable
<u>IATA</u>	
Transport hazard class(es) (IATA):	Not applicable
14.4. Packing group	
Packing group (ADR):	Not applicable
Packing group (IMDG):	Not applicable
Packing group (IATA):	Not applicable
14.5. Environmental hazards	
Dangerous for the environment:	Not applicable
Marine pollutant:	Not applicable
Other information:	No supplementary information available
14.6. Special precautions for user	
Special transport precautions:	For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not applicable	

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SECTION 15 – Regulatory Information
15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

EU-Regulations	
No REACH Annex XVII restrictions	
Other information, restriction, and prohibition regulations:	Directive (EU) 2017/2398 of the European Parliament and of the Council of 12 December 2017 amending Directive 2004/37/EC on the protection of workers against the risks related to exposure to carcinogens or mutagens at work.
National regulations	
Occupational diseases	
RG 25 - Disorders consecutive to the inhalation of mineral dust containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), or coal graphite. Social Security Code: articles L461-1 to 8; mandatory advance declaration of the employer table(s): 25	
Hazardous Substances	
Order of 20.04.1994 as last amended by the decree of 7th December 2009.	
Classified Installations	
Law no. 76-663 of 19.7.76 and Circular of 17.7.78	
Waste	
Law no. 75-633 of 15.7.75 - Technical instruction of 22.1.80 on industrial waste. Order of 02.02.1998, as amended by the decree of 29.5.2000 and by the order of 03.08.2001, relating to extraction and consumption of water, and to emissions of any kind from installations classified for the protection of the environment subject to authorization.	

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out by the manufacturer.

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SECTION 16 – Other Information

History:	REV 4.0 General - Annual review – reformatting General Addition of packaging information Section 1.3 - Change to Supplier data Section 1.3 - Revised E-mail contact details Section 3.1 - Clarification of compositional information Section 7.3 – Specified product to be used as a filter aid in food production.
Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No.1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
TLM	Median Tolerance Limit
STOT RE 1	Specific target organ toxicity – repeat exposure, category 1
STOT RE 2	Specific target organ toxicity – repeat exposure, category 2
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above Pall Corporation, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any materials is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Addendum 1 - Alternative local product names

'Pall SeitzSchenk SPEZIAL (DIC)' part number 539

'Pall SeitzSchenk SUPER (DIC B)' part number 616

'Pall SeitzSchenk SF (DIF-BO)' part number 608

'Kieselgur DIC Big Bag' part number 5800742

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