

**SAFETY DATA SHEET**

Date of Issue 11 October 2022

GIS-0005 Version 4

Replaced version 3.1

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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(s): Pall Kieselguhr filter aids (diatomaceous earth - calcined)

Example Part Number(s): Pall Seitz MEDIA (e)

Pall Seitz PURA (e)

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

ECHA REACH registration number: Substance does not require REACH registration according to Annex IV and V

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.

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](mailto: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

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### **SECTION 2 - Hazards Identification**

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Product definition: Substance (pink 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

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

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]

Hazardous components that must be listed on the label: Cristobalite fraction respirable <10 µm

Hazard pictograms (CLP):



GHS08

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.

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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.

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**SECTION 3 – Composition / Information on Ingredients**


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**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]
Kieselguhr, calcined	293-303-4	91053-39-3	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	< 40%	Not classified
Respirable Crystalline silica dust (<10 µm; impurity)			1 – 10%	STOT RE 1, H372
Quartz (SiO <sub>2</sub> )	238-878-4	14808-60-7	<10%	Not classified

Full text of H-statements: see section 16

**3.2. Mixtures**

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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 disorders seek medical advice
- In case of significant\* inhalation of dust: Move the person outside and maintain 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 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

Breathing dust containing crystalline silica over a long period of time may cause harmful pulmonary effects. Crystalline silica (cristobalite) dust is a proven cause of silicosis, a progressive and sometimes fatal lung disease.

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**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: High volume waterjet

**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.

Decomposition products may include carbon dioxide and carbon monoxide.

**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

Use waterspray to cool unopened containers.

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**SECTION 6 - Accidental Release Measures**

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**6.1 Personal precautions, protective equipment and emergency procedures**  
**For non-emergency personnel**

Protective equipment: Use personal protective equipment. Avoid dust formation and inhaling dust.

Measures in case of dust release: Avoid inhaling 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 dust.

**6.2 Environmental precautions**

Do not discharge to drains, surface water, ground water or soil.

Avoid dispersal by draughts or a dust in the air.

Prevent the product entering the sewers

**6.3 Methods and Materials for containment and cleaning up**

Collect and remove without creating dust.  
Keep in suitable closed containers and for disposal.  
Avoid dispersion of the dust in the air (e.g.: by the removing the dust on 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.

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**SECTION 7 – Handling and Storage**

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**7.1 Precautions for safe handling**

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<u>Additional hazards when processed:</u>	Provide anti-dust equipment or method of unloading and handling.
<u>Precautions for safe handling:</u>	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).
<u>Hygiene measures:</u>	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 food processing industrial hygiene.

**7.2 Conditions for safe storage, including any incompatibilities**

<u>Technical measures:</u>	Avoid creation of a dust cloud and prevent dispersion by the wind.
<u>Storage conditions:</u>	Keep the container tightly closed in a dry and well-ventilated area.
<u>Incompatible materials:</u>	Hydrofluoric Acid.
<u>Packaging materials</u>	Paper bags. 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.

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**SECTION 8 - Exposure Controls/Personal Protection**

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**8.1 Control parameters** (based on manufacturer information)

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<b>Cristobalite (CAS number 14464-46-1)</b>		
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 <sup>3</sup> )	0.05 mg/m <sup>3</sup> (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 <sup>3</sup> )	0.1 mg/m <sup>3</sup>

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

<b>Diatomaceous earth calcined (91053-39-3)</b>	
DNEL/DMEL (workers)	Long term - Systemic Effect, inhalable 0,33 mg/m <sup>3</sup>
DNEL/DMEL (general population)	Long term - Systemic Effect, oral 18,7 mg/kg body weight/day Long term - Systemic Effect, inhalable 0,08 mg/m <sup>3</sup>
PNEC (STP) PNEC Sewage treatment	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).

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**SECTION 9 - Physical and Chemical Properties**
**9.1 Information on basic physical and chemical properties**

Physical state:	Solid
Appearance:	Powder
Colour:	pink
Odour:	Odourless
Odour threshold:	No data available
pH-value:	5- 8 (10% in water)
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
Relative density:	No data available
Density:	220 - 250 kg/m <sup>3</sup> according to the quality
Solubility:	Negligible
Log Pow:	Not applicable (mineral product)
Viscosity, kinematic:	Not applicable (mineral product)
Viscosity, dynamic:	Not applicable (mineral product)

**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 specific available.

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**10.2 Chemical stability**

The product is stable in food processing 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**

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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.

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**11.1 Information on toxicological effects** (manufacturer supplied information)

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

<b>Diatomaceous earth calcined</b> (CAS number 91053-39-3)	
LD50 oral rat	DL50 > 2.000 mg/kg (OECD Method Guideline 401) Results obtained with a similar product
LC50 Inhalation rat (mg/l)	CL50 Rat > 2.000 mg/kg (OECD Method Guideline 403) Results obtained with a similar product

Skin damage / irritation :

Not classified  
Not irritating to the skin. Test on human skin model  
pH-Wert: 5 - 8 (10%)

Serious eye damage / irritation:

Not classified  
Not irritating to the eye - OECD-Guideline 405  
pH-Wert: 5 - 8 (10%)

Respiratory / Skin sensitisation:

Not classified  
Inhalation – No reported effect by analogy with a similar product.

Contact with the skin – Not skin sensitising (OECD-Method, Guideline 429).

No reported effect by analogy with a similar product.

Germ cell Mutagenicity:

Not classified  
By analogy to similar products - In Vitro - negative (OECD-Method, guideline 471).

Carcinogenicity:

Not classified

<b>Respirable Crystalline Silica dust</b>	
Additional information	Breathable crystalline silica fractions. DFG MAK Committee (Germany) – Carcinogen – Category I, IARC: group 1 – carcinogenic to humans. Respect of the exposure limits for the breathable fractions of crystalline silica can prevent silicosis and consequent lung cancer. Long term exposure to breathable fractions of

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	diatomaceous earth may result in irreversible effects on the lungs. Silicosis is the main effect before lung cancer.
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<u>Reproductive toxicity:</u>	Not classified No data available
<u>STOT – single exposure:</u>	Not classified
<u>STOT – repeated exposure:</u>	May cause damage to organs through prolonged or repeated exposure.
<u>Aspiration hazard:</u>	Not classified
<u>Potential adverse human health effects and symptoms</u>	See additional information above.

**11.2 Information on likely routes of exposure**

<u>Dermal:</u>	No data available
<u>Eye contact:</u>	In the event of contact with the eyes -irritation may occur , particularly in prolonged contact.
<u>Inhalation:</u>	Fibre / Dust generation and dispersal – irritation and see Additional information above.
<u>Ingestion:</u>	No data available

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**SECTION 12 - Ecological Information**


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**12.1 Toxicity** (manufacturer supplied information)

<b>Diatomaceous earth calcined</b> (CAS number 91053-39-3)	
LC50 Fish 1	No effect up to limit of solubility
EC50 Daphnia 1	No effect up to limit of solubility
EC50 72h algae 1	No effect up to limit of solubility
NOEC (additional information) Microorganism - NOEC	3 h - > 1.000 mg/L (OECD Methode, Richtlinie 209)

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**12.2 Persistence and degradability**

<b>Diatomaceous earth calcined</b> (CAS number 91053-39-3)	
Persistence and degradability	Not Applicable - inorganic substance

**12.3 Bioaccumulative potential**

<b>Diatomaceous earth calcined</b> (CAS number 91053-39-3)	
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**

<b>Diatomaceous earth calcined</b> (CAS number 91053-39-3)	
Results of PBT assessment	Not Applicable - inorganic substance

**12.6 Other adverse effects** - No additional information available

**SECTION 13 - Disposal Information**

**13.1 Waste treatment methods**

Waste treatment methods:	<p>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.</p>
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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.

**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>	

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Transport hazard class(es) (IMDG): Not applicable

IATA

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

**SECTION 15 – Regulatory Information**

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

<b>EU-Regulations</b>	
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.
<b>National regulations</b>	
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	

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<b>Hazardous Substances</b>
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
<b>Waste</b>
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 NOT been carried out

**SECTION 16 – Other Information**

History:	REV 2.0 General - Annual review 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.
<b>Abbreviations and acronyms:</b>	
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

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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
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
TLM	Median Tolerance Limit

Meanings of H- and EUH statements:

STOT RE 1	Specific target organ toxicity (repeated exposure), Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure), Category 2
H372	May cause damage to organs through prolonged or repeated exposure if inhaled
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Date of issue: January 18<sup>th</sup> 2023

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**SAFETY DATA SHEET**

Date of Issue 11 October 2022

GIS-0005 Version 4

Replaced version 3.1

**Addendum 1 - Alternative local product names and part numbers**

'Pall SeitzSchenk MEDIA ' part number 515

'Pall SeitzSchenk PURA' part number 521

'Kieselgur CBR 2 Big Bag' part number 522

'Kieselgur CBR 3 Big Bag' part number 5800741

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