

According to Regulation (EC) 1907/2006, (REACH), 1272/2008 (CLP) &

2015/830

Revision date: 20.09.2017 Version 3.0 Printing date: 13.11.2018

Poliresin®

1. Identification of the substance / Preparation and Company:

1.1 Product identifier

Commercial product name: Poliresin

Product description: Polishing material

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

Relevant identified uses:

Used as a carrier, a silica source, or as a functional additive

for paint, cosmetics, plastics, rubber or other applications. Use

as filter aid in industrial settings.

Exposure Scenario No.

o. Page:
Manufacture of kieselguhr soda ash flux 10

Manufacture of Rieselgurii soda asri i

calcined

Use as filter aid in industrial settings
 Industrial, professional and private use of
 13

substance or mixtures containing the substance

Used Advised Against: Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: SILADENT Dr. Böhme & Schöps GmbH

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Street / mailbox: Im Klei 26

Country code. / postal code / city: DE - 38644 Goslar
Phone: +49 (0) 53 21 / 37 79 - 0
Fax: +49 (0) 53 21 / 38 96 32

E-mail / Website: info@siladent.de / www.siladent.de / www.siladent.de / SILADENT Dr. Böhme & Schöps GmbH

1.4 Emergency telephone number

SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification

2.1 Classification of the substance or mixture: This product contains cristobalite (fine fraction) at: < 1%.

Depending on the type of handling and use (e.g. grinding)

Depending on the type of handling and use (e.g. grinding, drying), airborne fine fraction crystalline silica may be

generated. Prolonged and/or massive inhalation of fine fraction crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are

cough and breathlessness.

Occupational exposure to fine fraction crystalline silica dust

should be monitored and controlled.

2.1.1 Regulation (EC) No. 1272/2008 (CLP): Not classified as hazardous for supply/use.

Label elements: According to Regulation (EC) No. 1272/2008 (CLP)

Diatomaceous Earth, Flux-Calcined (Kieselguhr)

(< 1% Crystalline Silica - Cristabolite (Respirable Dust)

Hazard Pictogram(s):

Signal Word(s):

Hazard Statement(s):

Precautionary Statement(s):

None assigned.

None assigned.

None assigned.

2.3 Other hazards: None.

3. Composition / Information on Ingredients

3.1 Substances:

Contains:

2.2

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

Chemical identity of the substance	%W/W	CAS. No.	EC No.
Diatomaceous Earth, Flux-Calcined (Kieselguhr)	approx. 100	68855-54-9	272-489-0
Contains: Cristobalite (Respirable Dust), <1 Fine Fraction	<1	14464-46-1	238-455-4
Crystalline Silica per SWeRF calculation			

3.2 Mixtures: Not applicable.



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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. If irritation develops and persists, get medical attention. Blow nose to
		evacuate dust.
	Skin contact:	Remove clothing and wash thoroughly before use. Wash affected skin with soap and water. If skin irritation or rash
	Eye contact:	occurs: Get medical advice/attention. Flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention if eye irritation develops or
	Ingestion:	persists. Rinse mouth. Give plenty of water to drink. Get medical attention.
4.2	Most important symptoms and effects, both acute and delayed:	Prolonged and/or massive exposure to fine fraction crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing
		and general throat irritation. Chronic inhalation of dust should
4.0	Indication of any inspections and adjust	be avoided. May cause irritation to the respiratory system.
4.3	Indication of any immediate medical attention and special treatment needed:	Unlikely to be required but if necessary treat symptomatically. There is no specific antidote. Remove person to fresh air and
	attention and special freatment needed.	keep comfortable for breathing.
5.	Fire-fighting measures	
5. 5.1	Extinguishing media:	
	Suitable extinguishing media:	Non-flammable. Extinguish with carbon dioxide, dry chemical, foam or water spray. As appropriate for surrounding fire.
- 0	Unsuitable extinguishing media:	None.
5.2	Special hazards arising from the substance or mixture:	Non-flammable, non-combustible, not explosive.
5.3	Advice for fire-fighters:	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
6.	Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures:	Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Wear appropriate personal protective equipment, avoid direct contact. Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.
6.2	Environmental precautions:	No special requirements.
6.3	Methods and material for containment	Sweep spilled substances into containers if appropriate
	and cleaning up:	moisten first to prevent dusting. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal.
6.4	Reference to other sections:	See sections 8 and 13.
7.	Handling and Storage	
7.1	Precautions for safe handling:	Handle packaged products carefully to prevent accidental
	-	bursting. If you require advice on safe handling techniques, please contact your supplier or check the GOOD Practice Guide referred to in section 16. Avoid generation of dust. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Wear protective gloves/protective

not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with the



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skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Atmospheric concentrations should be minimised and kept as

low as reasonably practicable below the occupational

exposure limit.

Stable under normal conditions. Store in dry place.

Keep away from Hydrofluoric Acid.

7.3 Specific end Use(s): See section 1.2.

8. Exposure controls / Personal protection

Conditions for safe storage, including

8.1 Control parameters

Storage life:

8.1.1 Occupational Exposure limits

any incompatibilities:

Incompatible material:

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Silica, Respirable Crystalline	-	-	0.1	-	-	WEL: Workplace Exposure Limit (UK HSE EH40)
Nuisance Dust	-	-	10	-	-	Inhalable Dust. WEL: Workplace Exposure Limit (UK HSE EH40)
Nuisance Dust	-	-	4	-	-	Respirable Dust. WEL: Workplace Exposure Limit (UK HSE EH40)

Note: For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

8.1.2 Biological limit value:

Not established.

8.1.3 PNECs and DNELs:

Diatomaceous Earth (Kieselguhr): Not harmful to aquatic organisms. Insoluble in water. On the basis the PNECs for the aquatic compartment have not been derived.

Diatomaceous Earth (Kieselguhr) DNELs	Oral	Inhalation	Dermal
Industry - Long Term - Systemic effects	-	0.05 mg/m ³	-
Consumer - Long Term - Systemic effects	18.7 mg/kg bw/dav	0.05 mg/m ³	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

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

Avoid dust generation.

8.2.2 Individual protection measures, such as

personal protective equipment (PPE):

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin

and eyes. Do not breathe dust.

Eye/Face protection: Wear eye protection with side protection (EN166)

Skin protection:

Respiratory protection:

(P)

Thermal hazards:

8.2.3 Environmental Exposure Control

Use skin barrier cream before handling the product. Wear suitable gloves if prolonged skin contact is likely - Wear impervious gloves (EN374). Unsuitable glove materials.

Atmospheric levels should be controlled in compliance with the occupational exposure limit. In case of inadequate ventilation wear respiratory protection. Recommended: Halfface mask (DIN EN 140), Filter type P2/P3 - efficiency of at

least 90%.

Not applicable. Avoid wind dispersal.

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Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance: White powder Odour: Odourless

Odour threshold: Not available.

ph (10% Suspension): 10

Melting point / freezing point: Not applicable.

Initial boiling point and boiling range: Decomposes below boiling point at (°C): >1300°C

Flash point: Non-flammable. Evaporation rate: Not applicable. Flammability (solid, gas): Non-flammable. Non-flammable.

Upper/lower flammability or explosive

limits:

Vapour pressure: Not applicable. Vapour density: Not applicable. Relative density: $2.3 \text{ g/cm}^3 (H_2O = 1)$

<1% Water Solubility(ies):

Soluble in: Hydrofluoric Acid

Partition coefficient: n-octanol/water: Not available. Not applicable. Auto-ignition temperature: Not available. Decomposition Temperature: Not applicable, solid. Viscosity:

Explosive properties: Not explosive. Oxidising properties: Not oxidisina.

9.2 Other information: None.

Stability and Reactivity 10.

Reactivity: 10.1 Stable under normal conditions. Chemical Stability: 10.2 Stable under normal conditions. Possibility of hazardous reactions: Stable under normal conditions. 10.3

Avoid contact with: Hydrofluoric Acid. Do not leave in enclosed Conditions to Avoid: 10.4

spaces when mixed with highly flammable material, as heat can build up over long periods of time and flammable material

may eventually ignite.

10.5 Incompatible Materials: Reacts violently with Hydrofluoric Acid.

10.6 Hazardous decomposition products: No hazardous decomposition products known.

Toxicological information 11.

Information on toxicological effects 11.1

> Acute toxicity: Based upon the available data, the classification criteria are

not met.

Ingestion: Based upon the available data, the classification criteria are

not met.

Inhalation: Based upon the available data, the classification criteria are

not met.

Skin contact: Based upon the available data, the classification criteria are

not met.

Eye contact: Based upon the available data, the classification criteria are

not met.

Skin corrosion/irritation: Based upon the available data, the classification criteria are

not met.

Based upon the available data, the classification criteria are Serious eye damage/irritation:

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

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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: Prolonged and/or massive exposure to fine fraction crystalline

silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine

respirable particles of crystalline silica.

In 1997, IARC (the International Agency for research on Cancer) concluded the crystalline silica inhaled from occupational sources can cause lung cancer in humans (human carcinogen category 1). However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France). In 2009, in the Monographs 100 series, IARC confirmed its classification of Silica Dust, Crystalline in the form of Quartz and Cristobalite (IARC Monographs, Volume 100C, 2012). In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of fine fraction crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefor preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003). So there is a body of evidence supporting the fact that increased cancer risk would be limited

to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see

12.	Ecological information	
12.1	Toxicity:	Not classified as Marine Pollutant.
12.2	Persistence and degradability:	Not applicable.
12.3	Bioaccumulative potential:	The production has no potential for bioaccumulation. Some organisms accumulate Si(OH)4.
12.4	Mobility in soil:	The product is predicted to have low mobility in soil.
12.5	Results of PBT and vPvB assessment:	This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.
12.6	Other adverse effects:	None known.
13.	Disposal considerations	
13.1	Waste treatment methods:	Dispose of empty containers and waste safely. Dispose of contents in accordance with local, state or national legislation.
13.2	Additional information:	Packaging waste: Remove all packaging for recovery or

section 16 below).

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disposal. Make sure that packaging is completely empty

before recycling. Inform consumer about possible hazards of unclean empty packaging for recycling or disposal.

14. Transport information

Not classified according to the United Nations "Recommendations on the Transport of Dangerous

Goods".

ADR/RID / IMDG / ICAO/IATA

14.1 UN number: Not applicable.
14.2 UN proper shipping name: Not applicable.
14.3 Transport hazard class: Not applicable.
14.4 Packaging group Not applicable.

14.5 Environmental hazards Not classified as Marine Pollutant.

14.6 Special precautions for users Not applicable.

14.7 Transport in bulk according to Annex II of Diatomaceous Earth, no special measures are required.

MARPOL 73/78 and the IBC Code:

14.8 Additional information: None.

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: 1

15.2 Chemical safety assessment: Subject to REACH Registration. A chemical safety

assessment has been carried out.

16. Other information

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

References: Existing Safety Data Sheet (SD), Existing ECHA registration(s)

for Diatomaceous Earth (Kieselguhr), soda Fklux-Calcined

(CAS# 68855-54-9).

Training

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations. A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25th of April 2006. This autonomous agreement, which received the European Commission's financial support, is based on a GOOD Practice Guide. The requirements of the Agreement came into force on 25th of October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the agreement and its annexes, including the Good Practice Guide, are available from http://www.nepsi.eu and provide useful information and guidance for the handling of products containing fine fraction crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

Legend

LTEL: Long Term Exposure Limit STEL: Short Term Exposure Limit DNEL: Derived No Effect Level

PNEC Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very bioaccumulative

OECD Organisation for Economic Cooperation and Development SCOEL: The EU Scientific Committee on Occupational Exposure

Limits.

IARS: International Agency for Research on Cancer

SWeRF: Size-Weighted Fine Fraction

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Annex to the extended Safety Data Sheet (eSDS)

The following scenarios were addressed in the chemical safety report (CSR) for Kieselguhr, Soda Ash Flux-Calcined Fine Cristobalite Fraction as prepared as part of the registration dossier required by the EU REACH Regulation:

Exposure scenario 1 Manufacture of kieselguhr soda ash flux calcined

Exposure scenario 2 Use as filter aid in industrial settings

Exposure scenario 3 Industrial, professional and private use of substance or mixtures containing

the substance

Kieselguhr, Soda Ash Flux-Calcined Fine Cristobalite Fraction < 1%

CAS No. 68855-54-9 EC No. 272-489-0

Summary of Parameters

Physical parameters	
Melting point/freezing point	> 450 °C
Partition Coefficient (log KOW)	Not applicable
Solubility (Water) (mg/l)	3.7 mg/l @ 20 °C
Molecular weight	66.0843
Biodegradability	The methods for determining the biological degradability are not applicable to inorganic substances.

Human Health (DNEL)			
	Short term	Inhalation (mg/m³)	0.05 mg/m ³
Workers		Dermal (mg/kg bw/day)	Not determined
	Long Term	Inhalation (mg/m³)	Not determined
		Dermal (mg/kg bw/day)	Not determined
Consumer		Inhalation (mg/m³)	0.05 mg/m ³
		Dermal (mg/kg bw/day)	Not determined
		Oral (mg/kg bw/day)	3.5 mg/kg bw/day

Environmental Parameters (PNECs)			
Exposure Scenario	PEC Environment Reasonable worst case	PNEC STP	
ES1 Manufacture of kieselguhr soda ash flux calcined	Not defined	Not defined	
ES2 Use as filter aid in industrial settings	3.87 mg/l	100 mg/l	
ES3 Industrial, professional and private use of substance or mixtures containing the substance	0.329 mg/l	100 mg/l	

Contents		
Number of the ES	Title	Page:
Exposure scenario 1	Manufacture of kieselguhr soda ash flux calcined	10
Exposure scenario 2	Use as filter aid in industrial settings	13



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Exposure scenario 3	Industrial, professional and private use of substance or	16
	mixtures containing the substance	

Contributing Scenarios

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PROC15

PROC19

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PROC1	Use in closed process, no likelihood of exposure
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7	Industrial spraying
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring

Hand-mixing with intimate contact and only PPE available

Use as laboratory reagent

Exposure Scenario 1 - Manufacture of kieselguhr soda ash flux calcined

1.0 Contributing Scenarios	
Sector of uses SU	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category [PROC]	PROC2 Use in closed, continuous process with occasional controlled exposure PROC3 Use in closed batch process (synthesis or formulation) PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Chemical product category [PC]	PC0 Other Adsorbents, Filling material PC14 Metal surface treatment products, including galvanic and electroplating products
Article Categories [AC]	Not applicable
Environmental release categories [ERC]	ERC1 Manufacture of substances
Specific Environmental Release Categories SPERC	Not applicable

2.0 Operational conditions and risk management measures		
2.1 Control of worker exposure		
Product characteristics		
Physical form of product	White/Beige Powder	
Concentration of substance in product	Covers concentrations up to 100%	
Human factors not influenced by risk management		
Potential exposure area	Not defined	
Frequency and duration of use		
Exposure duration per day	Covers daily exposures up to 8 hours (unless stated differently).	
Exposure time per week	Covers frequency up to: 5 days per week.	

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Other operational conditions affecting worker exposure All contributing scenarios Indoor Characteristics of the surroundings Not defined General measures applicable to all activities Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature, unless stated differently. Do not breathe dust. Avoid dust generation. Clear spills immediately. After contact with skin, wash immediately with plenty of: Water. Provide basic employee training to prevent / minimize exposures. Organisational measures All contributing scenarios Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and clear transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; Ensure suitable personal protective equipment is available; Clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions. Technical conditions of use PROC4. PROC5. PROC8a. Local exhaust ventilation is required. PROC8b, PROC9, PROC15, PROC19 PROC1, PROC2, PROC3 Use in closed systems. Local exhaust ventilation is required. Risk management measures related to human health Half-face mask (DIN EN 140), Filter Respiratory protection PROC4, PROC8b, PROC9 type P2/P3 - efficiency of at least 90% PROC2, PROC3 No special measures are required. Hand and/or Skin protection All contributing scenarios Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin. Eye Protection All contributing scenarios Wear eye protection with side protection (EN166). Other operational conditions affecting worker exposure Assumes a good basic standard of occupational hygiene is implemented. 2.2 Control of environmental exposure Amounts used Fraction of EU tonnage used in region: Regional use tonnage (tons/year): Not considered to influence the exposure as such for this Fraction of Regional tonnage used scenario locally: tons/year Annual site tonnage (tons/year): Maximum daily site tonnage (kg/day): Environment factors not influenced by risk management Flow rate of receiving surface water Not defined (default = 18,000) (m^3/d) : Local freshwater dilution factor: 10 Local marine water dilution factor: 100 Operational conditions Emission days (days/year): Not defined Release fraction to air from process No risk is anticipated: Atmospheric concentrations are expected (initial release prior to RMM): to be low. Release fraction to wastewater from 100 ma/l process (initial release prior to RMM):

(MSafe) (kg/d):

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Release fraction to soil from process	No risk is anticipated: Deposition is expected to be low.			
(initial release prior to RMM):				
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to				
Treat air emission to provide a typical	Not defined. It is recommended to pass waste gas from			
removal efficiency of (%):	manufacturing processes through bag filters, scrubbers or cyclones.			
Treat onsite wastewater (prior to	The wastewater resulting from manufacturing of the substance			
receiving water discharge) to provide	can be treated by sedimentation to remove the solid parts of the			
the required removal efficiency of (%):	substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.			
If discharging to domestic sewage	The wastewater resulting from manufacturing of the substance			
treatment plant, provide the required	can be treated by sedimentation to remove the solid parts of the			
onsite wastewater removal efficiency of	substance. The sedimentation is very efficient with a reduction			
(%):	efficacy of 99% or more.			
Treat soil emission to provide a typical	Not defined.			
removal efficiency of (%)				
Note: Common practices vary across sites thus conservative process release estimates used.				
Organisational measures to prevent/limit release from site				
	nce to or recover from onsite wastewater.			
Do not apply industrial sludge to natural s				
Sludge should be incinerated, contained				
Conditions and measures related to mun				
Size of municipal sewage	Not defined			
system/treatment plant (m³/d)				
Degradation effectiveness (%)	Not defined			
Conditions and measures related to exte				
Type of waste	Solid and Liquid and Gas			
Disposal technique	Bury on an authorised landfill site or incinerate under approved			
	controlled conditions. It is recommended to pass waste gas			
	from manufacturing processes through bag filters, scrubbers or cyclones.			
Substance release quantities after risk m				
Release to waste water from process	< 3.87 mg/l			
(mg/l)				
Maximum allowable site tonnage	Not defined			
	<u> </u>			

3. Exposure estimation and reference to its source				
3.1 Human exposure	prediction			
Exposure assessmen	t	ECETOC TRA	2010	
(method/calculation m	nodel)			
			Inhalation	
Process category	Duration	Local	inhalation exposure	Risk
[PROC]		Exhaust	(mg/m³)	characterization
		Ventilation		ratio (RCR)
PROC1	4 – 8	None	0.01	0.028
PROC2	4 – 8	90%	0.1	0.278
PROC3	4 – 8	90%	0.1	0.278
PROC4	<u><</u> 1	95%	0.25	0.694
PROC5	<u><</u> 1	95%	0.25	0.694
PROC8a	<u><</u> 1	95%	0.25	0.694
PROC8b	<u><</u> 1	95%	0.25	0.694
PROC9	<u><</u> 1	95%	0.2	0.556
PROC15	4 – 8	95%	0.25	0.694
PROC19	< 1	95%	0.25	0.694

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Dermal exposure is considered to be not relevant. Oral exposure is not expected to occur.

3.2 Environmental exposure prediction	n
Exposure assessment	EUSES
(method/calculation model)	
Risk characterisation ratio	
Waste water treatment	Not defined: After sedimentation, wastewater sent to the waste water treatment plant contains: < 3.87 mg/l. No effects are observed at this level.
Aquatic Compartment (Pelagic)	Not defined: Reasonable worst-case local PECs are below the no effect level (3.87 mg/l): 0.387/0.039 mg/l
freshwater sediment/marine sediment	No risk is anticipated: Kieselguhr is naturally occurring and is considered a natural part of ecosystems.
Soil	No risk is anticipated: Deposition is expected to be low.
Atmospheric Compartment	No risk is anticipated: Atmospheric concentrations are expected to be low.
Indirect exposure to humans via the environment / Secondary Poisoning	The substance has a low solubility in water and thus is essentially unavailable to organisms.

4. Evaluation guidance to de	ownstream	n user		
For scaling see		Where other Risk Management Measures/Operational		
		Conditions are adopted, then users should ensure that risks are		
		managed to at least equivalent levels.		
		Available hazard data do not	support the need for a DNEL to be	
		established for other health e	ffects.	
			d control technologies are provided	
		in SpERC factsheet (http://cefic.org/en/reach-for- industries-		
		libraries.html).		
			ecommendations, the "worst case"	
			d only the most stringent RMMs	
			of exposure have been taken.	
Exposure assessment		Workers	ECETOC TRA 2010	
instrument/tool/method		Environmental exposure	EUSES	
Exposure Scenario 2 – Use	as filter aid	d in industrial settings		
1.0 Contributing Scenarios				
Sector of uses SU		dustrial uses: Uses of substances as such or in preparations at		
	industrial sites SU4 Manufacture of food products			
		Manufacture of wood and wood products		
		Manufacture of pulp, paper and paper products		
produc SU9 M SU15 N		fanufacture of bulk, large scale chemicals (including petroleum		
		anufacture of fine chemicals		
		5 Manufacture of fabricated metal products, except machinery and		
	equipm			
	SU19 Building and construction work			
Process category [PROC]				
		C2 Use in closed, continuous process with occasional controlled		
			ROC3 Use in closed batch process (synthesis or	
	formulation) PROC4 Use in batch and other process (synthesis) where opportur for exposure arises PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a Transfer of substance or preparation (charging/dischargir from/to vessels/large containers at non-dedicated facilities PROC8b Transfer of substance or preparation (charging/dischargir		as (synthosis) where apportunity	
			and other process (synthesis) where opportunity	
			rocesses for formulation of	
	1111000	by Transier of Substance of pro	sparation (charging/discharging)	

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from/to vessels/large containers at dedicated facilities PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15 Use as laboratory reagent PROC19 Hand-mixing with intimate contact and only PPE available PC0 Other Filtration material PC2 Adsorbents Chemical product category [PC] PC14 Metal surface treatment products, including galvanic and electroplating products PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents PC25 Metal working fluids PC35 Washing and cleaning products (including solvent based products) Article Categories [AC] Not applicable Environmental release ERC1 Manufacture of substances ERC2 Formulation of preparations categories [ERC] ERC4 Industrial use of processing aids in processes and products, not becoming part of articles. ERC6b Industrial use of reactive processing aids ERC7 Industrial use of substances in closed systems Specific Environmental Release Not applicable Categories SPERC

2.0 Operational conditions and risk management measures		
2.1 Control of worker exposure		
Product characteristics		
Physical form of product	white powder	
Concentration of substance in product	White/Beige Powder Covers	concentrations up to 100%
Human factors not influenced by risk ma		
Potential exposure area	Not defined	
Frequency and duration of use		
Exposure duration per day	Covers daily exposures up to	8 hours (unless stated differently).
Exposure time per week	Covers frequency up to: 5 da	ys per week.
Other operational conditions affecting w	orker exposure	
Area of use	All contributing scenarios	Indoor
Characteristics of the surroundings	Room volume	50 m ³
	Ventilation rate	0.6 / 1 hour(s)
20°C above ambient temperature, unless Clear spills immediately. After contact we employee training to prevent / minimize	vith skin, wash immediately with	
Organisational measures		
All contributing scenarios	Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and clear transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; Ensure suitable personal protective equipment is available; Clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions.	
Technical conditions of use		

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DDOOL DDOOL DDOOL	Tree tree tree tree tree tree tree tree		
PROC4, PROC5, PROC8a, PROC8b,	Use with local exhaust ventilati	on or breathing protection.	
PROC9, PROC15, PROC19	Has in alread a rateur		
PROC2, PROC3	Use in closed systems.		
Risk management measures related to h		Tree	
Respiratory protection	PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19	Wear respiratory protection.	
	PROC2, PROC3	No special measures are required.	
Hand and/or Skin protection	All contributing scenarios	Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.	
Eye Protection	All contributing scenarios	Wear eye protection with side protection (EN166).	
Other operational conditions affecting wo	orker exposure		
Assumes a good basic standard of occur		•	
2.2 Control of environmental exposure	e		
Amounts used			
Fraction of EU tonnage used in region:	Not considered to influence the	e exposure as such for this	
Regional use tonnage (tons/year):	scenario	·	
Fraction of Regional tonnage used	7		
locally: tons/year			
Annual site tonnage (tons/year):	2 - 12500		
Maximum daily site tonnage (kg/day):	Not determined.		
Environment factors not influenced by ris			
Flow rate of receiving surface water	Not defined (default = 18,000)		
(m³/d):			
Local freshwater dilution factor:	10 Release fraction to soil from process (initial release prior to RMM):		
Local marine water dilution factor:	100		
Operational conditions	1		
Emission days (days/year):	Not defined		
Release fraction to air from process		eric concentrations are expected	
(initial release prior to RMM):	to be low.		
Release fraction to wastewater from	100 mg/l		
process (initial release prior to RMM):			
Release fraction to soil from process	No risk is anticipated: Deposition	on is expected to be low.	
(initial release prior to RMM):		•	
Technical onsite conditions and measure	es to reduce or limit discharges,	air emissions and releases to soil	
Treat air emission to provide a typical removal efficiency of (%):	Not defined. It is recommended to pass waste gas from manufacturing processes through bag filters, scrubbers or		
	cyclones.		
Treat onsite wastewater (prior to	The wastewater resulting from manufacturing of the substance		
receiving water discharge) to provide		n to remove the solid parts of the	
the required removal efficiency of (%):	substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.		
If discharging to domestic sewage		manufacturing of the substance	
treatment plant, provide the required	can be treated by sedimentation to remove the solid parts of the		
onsite wastewater removal efficiency of	substance. The sedimentation is very efficient with a reduction		
(%):	efficacy of 99% or more.		
Treat soil emission to provide a typical	Not defined		
removal efficiency of (%):			
Note: Common practices vary across site	es tnus conservative process rel	ease estimates used.	

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Organisational measures to prevent/limit release from site Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Conditions and measures related to municipal sewage treatment plant Size of municipal sewage Not defined system/treatment plant (m³/d) Not defined Degradation effectiveness (%) Conditions and measures related to external treatment of waste for disposal Type of waste Solid and Liquid and Gas Disposal technique Bury on an authorised landfill site or incinerate under approved controlled conditions. It is recommended to pass waste gas from manufacturing processes through bag filters, scrubbers or cyclones. Substance release quantities after risk management measures < 3.87 mg/l Release to waste water from process Maximum allowable site tonnage Not defined (MSafe) (kg/d):

3. Exposure estimation and reference to its source				
3.1 Human exposu	re prediction			
Exposure assessme	nt	ECETOC TRA	A 2010	
(method/calculation	model)			
			Inhalation	
Process category	Duration	Local	inhalation exposure	Risk
[PROC]		Exhaust	(mg/m³)	characterization
		Ventilation		ratio (RCR)
PROC2	4 – 8	None	0.147	0.408
PROC3	4 – 8	None	0.147	0.408
PROC4	4 – 8	None	0.147	0.408
PROC5	4 – 8	None	0.147	0.408
PROC8a	4 – 8	None	0.147	0.408
PROC8b	4 – 8	None	0.147	0.408
PROC9	4 – 8	None	0.147	0.408
PROC15	4 – 8	None	0.147	0.408
PROC19	8	None	0.147	0.408

Dermal exposure is considered to be not relevant. Oral exposure is not expected to occur.

3.2 Environmental exposure prediction	
Exposure assessment	EUSES
(method/calculation model)	
Risk characterisation ratio	
Waste water treatment	Not defined: After sedimentation, wastewater sent to the waste water treatment plant contains: < 3.87 mg/l. No effects are observed at this level.
Aquatic Compartment (Pelagic)	Not defined: Reasonable worst-case local PECs are below the no effect level (3.87 mg/l): 0.387/0.0387 mg/l
freshwater sediment/marine sediment	No risk is anticipated: Kieselguhr is naturally occurring and is considered a natural part of ecosystems.
Soil	No risk is anticipated: Deposition is expected to be low.
Atmospheric Compartment	No risk is anticipated: Atmospheric concentrations are expected to be low.
Indirect exposure to humans via the environment / Secondary Poisoning	The substance has a low solubility in water and thus is essentially unavailable to organisms.

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4. Evaluation guidance to downstream	user	
For scaling see	Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Available hazard data do not support the need for a DNEL to be established for other health effects. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for- industries-libraries.html). In accordance with ECHAs recommendations, the "worst case" approach has been taken and only the most stringent RMMs recommended for each route of exposure have been taken.	
Exposure assessment	Workers	ECETOC TRA 2010
instrument/tool/method	Environmental exposure	EUSES

Exposure Scenario 3 – Industrial, prof	essional and private use of substance or mixtures
containing the substance	
1.0 Contributing Scenarios	
Sector of uses SU	SU3 Industrial uses: Uses of substances as such or in
	preparations at industrial sites SU21 Consumer uses: Private
	households (= general public = consumers)
	SU22 Professional uses: Public domain (administration,
	education, entertainment, services, craftsmen)
Process category [PROC]	PROC2 Use in closed, continuous process with occasional
	controlled exposure PROC3 Use in closed batch process
	(synthesis or formulation)
	PROC4 Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC5 Mixing or blending in batch processes for formulation of
	preparations and articles (multistage and/or significant contact)
	PROC7 Industrial spraying
	PROC8a Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at non-
	dedicated facilities
	PROC10 Roller application or brushing
	PROC11 Non industrial spraying
	PROC13 Treatment of articles by dipping and pouring
	PROC19 Hand-mixing with intimate contact and only PPE
	available
Chemical product category [PC]	PC35 Washing and cleaning products (including solvent based
, , , , , ,	products) PC37 Water treatment chemicals
Article Categories [AC]	AC10 Rubber articles
5 1 1	AC13 Plastic articles
Environmental release categories [ERC]	ERC1 Manufacture of substances ERC2 Formulation of
5	preparations
	ERC8a Wide dispersive indoor use of processing aids in open
	systems
	ERC8c Wide dispersive indoor use resulting in inclusion into or
	onto a matrix
	ERC8d Wide dispersive outdoor use of processing aids in open
	systems
	ERC8f Wide dispersive outdoor use resulting in inclusion into or
	onto a matrix
	ERC10b Wide dispersive outdoor use of long-life articles and
	materials with high or intended release (including abrasive
	processing)
	processing)

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2.0 Operational condition 2.1 Control of worker exp		ianagement measures			
Product characteristics	osure				
		Calidanallimid			
Physical form of product		Solid and Liquid	1. 450/		
Concentration of substance		Covers concentrations	s up to 15%		
Human factors not influence	ed by risk ma				
Potential exposure area		Not defined			
Frequency and duration of	use	1		1	
Exposure duration		Use of coatings and paints		4 – 8 hours	
		containing kieselguhr			
		soda ash flux-calcined			
		Use of kieselguhr soda ash flux		1 hour/days	
		calcined for filtering wa			
		Use of cleaners containing		Professional: 60 min/Use	
		kieselguhr soda-ash		Consumer: 20 min/Days	
		flux calcined		005 days as a second	
Exposure frequency		Use of coatings and paints		225 days per year	
		containing kieselguhr soda ash flux-calcined			
		Use of kieselguhr soda ash flux		Professional: Weekly	
		calcined for		Consumer: Monthly	
		filtering water		Consumer. Monthly	
		Use of cleaners containing		Professional: < 8 Uses per	
		kieselguhr soda-ash flux calcined		day Consumer: 1 Uses per	
		Ricoeigani soda don n	day		nounce. I oded per
Other operational condition	s affecting w	orker exposure		Tuuy	
Area of use		ributing scenarios	Indoor		
Characteristics of the		ional: Use of coatings	Room volume		1 m³
surroundings		nts containing	Ventilation		0.6 / 1 hour(s)
9.		ıhr soda	Release area		200 cm ²
		-calcined	110100100	-	
		ional use of hand	Room volume		2.5 m ³
		3	Ventilation	entilation rate 2 / 1 hour	
			Release ar	ea	5 m ²
All other					

Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than 20°C above ambient temperature, unless stated differently. Do not breathe dust. Avoid dust generation. Clear spills immediately. After contact with skin, wash immediately with plenty of: Water. Provide basic employee training to prevent / minimize exposures.

Organisational measures

organiedaenai medeenee				
All contributing scenarios	Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and clear transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; Ensure suitable personal protective equipment is available; Clear up			
	spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures;			

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	consider the need for health surveillance; identify and				
	implement corrective actions.				
Technical conditions of use					
All contributing scenarios	Local exhaust recom	nmended.			
Risk management measures related to human health					
Respiratory protection	All contributing scenarios	Wear respiratory protection.			
Hand and/or Skin protection	All contributing scenarios	Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.			
	All contributing scenarios	Wear eye protection with side protection (EN166).			
Other operational conditions affecting wo	orker exposure				
Assumes a good basic standard of occur		plemented.			
2.2 Control of environmental exposure	e .				
Amounts used					
Tonnage in EU per year	120, tonnes				
Fraction of EU tonnage used in region:	10 %				
Regional use tonnage (tons/year):	12 tonnes				
Fraction of Regional tonnage used locally:	Not defined				
Annual site tonnage (tons/year):	Not defined	Not defined			
Maximum daily site tonnage (kg/day):	Not defined				
Environment factors not influenced by ris	sk management				
Flow rate of receiving surface water (m³/d):	2000				
Local freshwater dilution factor:	10				
Local marine water dilution factor:	100				
Operational conditions					
Emission days (days/year):	260				
Release fraction to air from process (initial release prior to RMM):	0				
Release fraction to wastewater from process (initial release prior to RMM):	0.1				
Release fraction to soil from process (initial release prior to RMM):	0				
Technical onsite conditions and meas	sures to reduce or lin	nit discharges, air emissions and			
Treat air emission to provide a typical removal efficiency of (%):	Not defined				
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%):	The wastewater resulting from manufacturing of the substance can be treated by sedimentation to remove the solid parts of the substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.				
If discharging to domestic sewage	The wastewater resulting from manufacturing of the substance				
treatment plant, provide the required onsite wastewater removal efficiency of (%):	can be treated by sedimentation to remove the solid parts of the substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.				
Treat soil emission to provide a typical removal efficiency of (%):	Not defined				
Note: Common practices vary across site wastewater treatment required.	es thus conservative p	process release estimates used. No			
Organisational measures to prevent/limit	release from site				
Vent waste air only via suitable separato					

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Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial					
sludge to natural soils. Sludge should be incinerated, contained or reclaimed.					
Conditions and measures related to municipal sewage treatment plant					
Size of municipal sewage	Not defined				
system/treatment plant (m³/d)					
Degradation effectiveness (%)	Not defined				
Conditions and measures related to external treatment of waste for disposal					
Type of waste	Solid and Liquid				
Disposal technique	Bury on an authorised landfill site or incinerate under approved controlled conditions.				
	Discharge cleaning water into sewer. Do not discharge cleaning water into small water bodies.				
Substance release quantities after risk management measures					
Release to waste water from process	0.012 mg/l				
(mg/l)	-				
Maximum allowable site tonnage	Not defined				
(MSafe) (kg/d):					

3. Exposure	3. Exposure estimation and reference to its source					
3.1 Human e	3.1 Human exposure prediction					
Exposure assessment (method/calculation model)			ECE	ECETOC TRA 2010		
Risk characterisation ratio						
					Inhalation	
Туре	Conte nt	Local Exhaust Ventilation	Durat ion	Process category [PROC]	inhalation exposure (mg/m³)	Risk characterisation ratio
Industrial	10%	NO	6	PROC7	0.325	0.903
Professional	95%	NO	6	PROC11	0.325	0.903

Consumer Use	Long Term inhalation exposure /mg/m³)	Short Term inhalation exposure /mg/m3)	Risk characterisation ratio (RCR
Use of high-solid paints	0.000122	-	0.0015
Use of water-based paints	0.000186		0.0023
Use of solvent-based paints	0.000864		0.011
Use of water-based wall paints	0.00044		0.0055
Spray painting (trigger cans)	-	37.5	-
Spray painting (pneumatic sprayer)	-	0.676	-
Filtration material	-	0.14	-
Cleaning products	0.00002	-	0.00025

3.2 Environmental exposure prediction				
Exposure assessment				
(method/calculation model)				
Risk characterisation ratio				
Waste water treatment	C _{STP} =	AMOUNT _{STP}		
	_	DAYS · INHAB · WASTEW _{inhab}		
	AMOUNT _{STP}	Amount of kieselguhr soda ash flux- calcined released to municipal STPs in the		

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EU per year (1.2E13 mg/Year(s), DAYS Number of release days (365 Days//Year(s)), Number of inhabitants in EU (500 million **INHAB** inhabitants) Wastewater per inhabitant (200 L/day) **WASTEW**inhab Concentration of kieselguhr soda ash flux-CSTP calcined in municipal STP (mg/l). Estimated STP Concentration (g/L): = 0.329 mg/LC_{STP} = 1.2E13 365 · 500000000 · 200 Aquatic Compartment (Pelagic) Surface Water: 0.333 mg/l marine water: 0.00033 mg/l No risk is anticipated: Kieselguhr is naturally occurring and is freshwater sediment/marine sediment considered a natural part of ecosystems. Soil No risk is anticipated: Kieselguhr is naturally occurring and is considered a natural part of ecosystems. Atmospheric Compartment No risk is anticipated: Deposition is expected to be low. Secondary Poisoning No risk is anticipated: Atmospheric concentrations are expected to be low. Indirect exposure to humans via the The substance has a low solubility in water and thus is environment / Secondary Poisoning essentially unavailable to organisms.

4. Evaluation guidance to downstream user				
For scaling see	Conditions are adopted, the managed to at least equive Available hazard data do established for other health Further details on scaling in SpERC factsheet (http://libraries.html). In accordance with ECHA	In accordance with ECHAs recommendations, the "worst case" approach has been taken and only the most stringent RMMs		
Exposure assessment	Workers	ECETOC TRA 2010 / RIVM 2008		
instrument/tool/method	Consumer	RIVM 2008		
	Environmental exposure	EUSES		