

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

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.

Page: Manufacture of kieselguhr soda ash flux 1 10

calcined

2 Use as filter aid in industrial settings 13

Industrial, professional and private use of 3 16

substance or mixtures containing the substance

Used Advised Against: Anything other than the above.

Details of the supplier of the safety data sheet 1.3

Manufacturer/Supplier: **ERNST HINRICHS Dental GmbH**

Street / mailbox: Borsigstr. 1 Country code. / postal code / city: D - 38644 Goslar Phone: 0 53 21 / 5 06 24 Fax: 0 53 21 / 5 08 81

E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de

Further information obtainable from: **ERNST HINRICHS Dental GmbH**

1.4 Emergency telephone number

> ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

Hazards Identification

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

mixture: 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) Contains:

Diatomaceous Earth, Flux-Calcined (Kieselguhr)

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

Hazard Pictogram(s): None assigned. Signal Word(s): None assigned. Hazard Statement(s): None assigned. Precautionary Statement(s): None assigned.

2.3 Other hazards: None.

Composition / Information on Ingredients

3.1 Substances:

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 Crystalline Silica per SWeRF calculation	<1	14464-46-1	238-455-4



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3.2	Mixtures:	Not applicable.
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 occurs: Get medical advice/attention.
	Eye contact:	Flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention if eye irritation develops or persists.
	Ingestion:	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 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 keep comfortable for breathing.
5.	Fire-fighting measures	
5.1	Extinguishing media:	
	Suitable extinguishing media: Unsuitable extinguishing media:	Non-flammable. Extinguish with carbon dioxide, dry chemical, foam or water spray. As appropriate for surrounding fire. 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. 7.1	Handling and Storage	Handle peakered products corefully to provest assidental
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



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case of inadequate ventilation wear respiratory protection. Do

not breathe dust. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid contact with the skin, eyes or clothing. Do not eat, drink or smoke when using

this product. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including

any incompatibilities:

Atmospheric concentrations should be minimised and kept as

low as reasonably practicable below the occupational

exposure limit.

Storage life: Stable under normal conditions. Store in dry place.

Incompatible material: Keep away from Hydrofluoric Acid.

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

Exposure controls / Personal protection

Control parameters 8.1

8.1.1 Occupational Exposure limits

Substance	CAS No.		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.

Biological limit value: 8.1.2

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	0.05 mg/m ³	-
	bw/day		

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.

Wear eye protection with side protection (EN166)

Skin protection:

Eye/Face protection:

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

Respiratory protection:





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least 90%.

Thermal hazards: Not applicable.

8.2.3 Environmental Exposure Control Avoid wind dispersal.

9. 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:

Evaporation rate:

Flammability (solid, gas):

Upper/lower flammability or explosive

Non-flammable.

Non-flammable.

limits:

Vapour pressure:Not applicable.Vapour density:Not applicable.Relative density: $2.3 \text{ g/cm}^3 \text{ (H}_2\text{O} = 1)$

Solubility(ies): <1% Water

Soluble in: Hydrofluoric Acid

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

Explosive properties:

Oxidising properties:

Not explosive.

Not oxidising.

9.2 Other information: None.

10. Stability and Reactivity

10.1 Reactivity: Stable under normal conditions.
 10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: Stable under normal conditions.

10.4 Conditions to Avoid:

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

11. Toxicological information

11.1 Information on toxicological effects

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.



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Serious eye damage/irritation:

Respiratory or skin sensitization:

Germ Cell mutagenicity:

Reproductive toxicity:

STOT - single exposure:

STOT - repeated exposure:

Aspiration hazard:

11.2 Other information:

Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

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Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

Based upon the available data, the classification criteria are not met.

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 guarries 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 section 16 below).

12. Ecological information

12.2	Persistence and degradability:	
400	Diagona viativo notantiali	

12.3 Bioaccumulative potential:

12.4 Mobility in soil:

Toxicity:

12.1

12.5 Results of PBT and vPvB assessment:

Not classified as Marine Pollutant.

Not applicable.

The production has no potential for bioaccumulation. Some organisms accumulate Si(OH)4.

The product is predicted to have low mobility in soil.

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.



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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
		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 Nati Goods".	ons "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		tions/Legislation specific for the substance or mixture
15.1.1	EU regulations	tions/Legislation specific for the substance of mixture
13.1.1	Authorisations and/or restrictions on use:	None.
15 1 0		NOHE.
15.1.2	National regulations	Motor borond aloos, 4
45.0	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



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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	0.329 mg/l	100 mg/l			



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

Contributing Scenarios

_	_	_	_	_		
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1 1100 0000	
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
PROC15	Use as laboratory reagent
PROC19	Hand-mixing with intimate contact and only PPE available

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				



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Product characteristics					
Physical form of product		White/Beige Powder	White/Beige Powder		
Concentration of substance in product		Covers concentrations up to 100%			
Human factors not influenced I	by risk ma	nagement			
Potential exposure area		Not defined			
Frequency and duration of use)				
Exposure duration per day		Covers daily exposur	es up to 8 hours (unless stated differently).		
Exposure time per week		Covers frequency up	to: 5 days per week.		
Other operational conditions a	ffecting wo	orker exposure			
Area of use		All contributing scena	rios Indoor		
Characteristics of the surround	dings	Not defined	·		
General measures applicable	to all activi	ties			
			lemented. Assumes use at not more than		
20°C above ambient temperate	ure, unless	s stated differently. Do	not breathe dust. Avoid dust generation.		
Clear spills immediately. After	contact wi	th skin, wash immedia	tely with plenty of:		
Water. Provide basic employed	e training t	o prevent / minimize e:	xposures.		
Organisational measures					
All contributing scenarios	enclosed standard	I systems, properly des of general ventilation.	using measures such as contained or signed and maintained facilities and a good Drain down systems and clear transfer tent. Drain down and flush equipment		
	where po	ossible prior to mainter	ance. Where there is potential for		
	exposure	e: Ensure relevant staff	are informed of the nature of exposure		
			ninimise exposures; Ensure suitable		
			is available; Clear up spills and dispose of		
			atory requirements; monitor effectiveness		
			he need for health surveillance; identify		
	and impl	ement corrective action	ns.		
Technical conditions of use	1				
PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19	Local ex	haust ventilation is req	uired.		
PROC1, PROC2, PROC3	Use in cl	osed systems. Local e	xhaust ventilation is required.		
Risk management measures re					
Respiratory protection		PROC8b, PROC9	Half-face mask (DIN EN 140), Filter		
, , , , , , , , , , , , , , , , , , , ,	,	,	type P2/P3 - efficiency of at least 90%		
	PROC2,	PROC3	No special measures are required.		
Hand and/or Skin protection		buting scenarios	Wear impervious gloves (EN374).		
		Č	Wear suitable coveralls to prevent		
			exposure to the skin.		
Eye Protection			Wear eye protection with side		
, 35g 335g			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	r):				
Maximum daily site tonnage (k					
Environment factors not influen		k management			
	•	<u>=</u>			



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	,			
Flow rate of receiving surface water	Not defined (default = 18,000)			
(m³/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 mg/l			
process (initial release prior to RMM):	N			
Release fraction to soil from process	No risk is anticipated: Deposition is expected to be low.			
(initial release prior to RMM):				
	es to reduce or limit discharges, air emissions and releases to soil			
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			
Troot anaita waatawatar (prior ta	cyclones. The wastewater resulting from manufacturing of the substance			
Treat onsite wastewater (prior to 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			
the required removal emclency of (%).	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 (%)	Not domina.			
	es thus conservative process release estimates used.			
Organisational measures to prevent/limit				
Prevent discharge of undissolved substa	nce to or recover from onsite wastewater.			
Do not apply industrial sludge to natural				
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 management measures				
Release to waste water from process	< 3.87 mg/l			
(mg/l)				
Maximum allowable site tonnage	Not defined			
(MSafe) (kg/d):				

3. Exposure estimation and reference to its source			
3.1 Human exposure prediction			
Exposure assessment	ECETOC TRA 2010		
(method/calculation model)			



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			Inhalation	
Process category [PROC]	Duration	Local Exhaust Ventilation	inhalation exposure (mg/m³)	Risk characterization 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	< 1	95%	0.25	0.694
PROC8a	< 1	95%	0.25	0.694
PROC8b	<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

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): 0.387/0.039 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	The substance has a low solubility in water and thus is		
environment / Secondary Poisoning	essentially unavailable to organisms.		

4. Evaluation guidance to	downstream	n user		
For scaling see Where Conditi manag Availab establis Further in SpEl libraries In accoapproa		Conditions are adopted, then managed to at least equivale Available hazard data do not established for other health e Further details on scaling and in SpERC factsheet (http://celibraries.html). In accordance with ECHAs reapproach has been taken and	There other Risk Management Measures/Operational onditions are adopted, then users should ensure that risks are nanaged to at least equivalent levels. vailable hazard data do not support the need for a DNEL to be stablished for other health effects. urther details on scaling and control technologies are provided a SpERC factsheet (http://cefic.org/en/reach-for- industries-	
Exposure assessment		Workers	ECETOC TRA 2010	
instrument/tool/method		Environmental exposure	EUSES	
Exposure Scenario 2 – Us 1.0 Contributing Scenario		d in industrial settings		
Sector of uses SU	SU3 In industri SU6a M	ndustrial uses: Uses of substances as such or in preparations at trial sites SU4 Manufacture of food products Manufacture of wood and wood products Manufacture of pulp, paper and paper products		



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

2015/830

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SU8 Manufacture of bulk, large scale chemicals (including petroleum products) SU9 Manufacture of fine chemicals SU15 Manufacture of fabricated metal products, except machinery and equipment SU19 Building and construction work Process category [PROC] 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) 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) PROC15 Use as laboratory reagent PROC19 Hand-mixing with intimate contact and only PPE available Chemical product category [PC] PC0 Other Filtration material PC2 Adsorbents 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 ERC1 Manufacture of substances ERC2 Formulation of preparations 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 Not applicable		,
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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	anagement		
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.		
Other operational conditions affecting worker exposure			
Area of use	All contributing scenarios	Indoor	
Characteristics of the surroundings	Room volume	50 m ³	
_	Ventilation rate	0.6 / 1 hour(s)	
General measures applicable to all activities			
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than			



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

2015/830

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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.			
	exposures.		
Organisational measures All contributing scenarios	0		
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, PROC8b, PROC9, PROC15, PROC19	Use with local exhaust ventilation	on or breathing protection.	
PROC2, PROC3	Use in closed systems.		
Risk management measures related to h	uman health		
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			
Amounts used			
Fraction of EU tonnage used in region:	Not considered to influence the	exposure as such for this	
Regional use tonnage (tons/year): Fraction of Regional tonnage used	scenario		
locally: tons/year	2 42500		
Annual site tonnage (tons/year):	2 - 12500		
Maximum daily site tonnage (kg/day):	Not determined.		
Environment factors not influenced by risk management			
Flow rate of receiving surface water (m³/d):	Not defined (default = 18,000)		
Local freshwater dilution factor:	10 Release fraction to soil from process (initial release prior to RMM):		
Local marine water dilution factor: 100			
Operational conditions			
Emission days (days/year): Not defined			
Release fraction to air from process (initial release prior to	No risk is anticipated: Atmospheric concentrations are expected to be low.		
RMM):			



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Release fraction to wastewater from	100 mg/l				
process (initial release prior to RMM):					
Release fraction to soil from process (initial release prior to RMM):	No risk is anticipated: Deposition is expected to be low.				
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 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 treatment plant, provide the required onsite wastewater 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.				
Treat soil emission to provide a typical removal efficiency of (%):	Not defined				
	es thus conservative process release estimates used.				
Organisational measures to prevent/limit					
sludge to natural soils. Sludge should be					
Conditions and measures related to mun	_ '				
Size of municipal sewage system/treatment plant (m³/d)	Not defined				
Degradation effectiveness (%)	Not defined				
Conditions and measures related to exte	rnal 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 m	anagement measures				
Release to waste water from process (mg/l)	< 3.87 mg/l				
Maximum allowable site tonnage (MSafe) (kg/d):	Not defined				

3. Exposure estimation and reference to its source						
3.1 Human exposui	re prediction					
Exposure assessment ECETOC TRA 2010 (method/calculation model)						
			Inhalation			
Process category [PROC]	Duration	Local Exhaust Ventilation	inhalation exposure (mg/m³)	Risk characterization 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		

instrument/tool/method



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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 m	odel)					
Risk characterisation r	atio					
Waste water treatmen	t		nt plant contains:	n, wastewater sent to the waste < 3.87 mg/l. No effects are		
Aquatic Compartment	(Pelagic)	no effect level (3.87 mg/l): 0.3	387/0.0387 mg/l	case local PECs are below the		
freshwater sediment/n	narine 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 Compart	ment	No risk is anticipated: Atmospheric concentrations are expected to be low.				
Indirect exposure to hi	umans via the	The substance	has a low solubil	lity in water and thus is		
environment / Second	ary	essentially unavailable to organisms.				
Poisoning						
4. Evaluation guidan	ce to downstrean					
For scaling see		Conditions are managed to at Available haza established for Further details in SpERC facts libraries.html). In accordance approach has lead to a series of the series of t	adopted, then us least equivalent I rd data do not sur other health efferon scaling and cosheet (http://cefic.with ECHAs recobeen taken and o	pport the need for a DNEL to be cts. ontrol technologies are provided org/en/reach-for-industries- mmendations, the "worst case" nly the most stringent RMMs		
Evacoure coccessor		Workers	ioi each foute of	exposure have been taken. ECETOC TRA 2010		
Exposure assessment		vvoikers		EGETOG TRA 2010		

Exposure Scenario 3 – Industrial, professional 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-			

Environmental exposure

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	dedicated facilities
	PROC10 Roller application or brushing PROC11 Non industrial spraying
	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
	AC13 Plastic articles
Environmental release categories [ERC]	ERC1 Manufacture of substances ERC2 Formulation of
	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)
Specific Environmental Release Categories SPERC	Not applicable

2.0 Operational conditions and risk management measures					
2.1 Control of worker exposur		.			
Product characteristics					
Physical form of product		Solid and Liquid			
Concentration of substance in p	roduct	Covers concentrations	up to 15%		
Human factors not influenced by	y risk mar	nagement			
Potential exposure area		Not defined			
Frequency and duration of use					
Exposure duration		Use of coatings and pa containing kieselguhr soda ash flux-calcined	ints	4 – 8 hou	ırs
		Use of kieselguhr soda calcined for filtering wa		1 hour/da	ays
		Use of cleaners containing		Professional: 60 min/Use	
		kieselguhr soda-ash flux calcined		Consume	er: 20 min/Days
Exposure frequency	Use of coatings and paints containing kieselguhr soda ash flux-calcined		225 days	per year	
		Use of kieselguhr soda ash flux calcined for filtering water		Professional: Weekly Consumer: Monthly	
	Use of cleaners containing kieselguhr soda-ash flux calcined		Professional: < 8 Uses per day Consumer: 1 Uses per day		
Other operational conditions affe	ecting wo	rker exposure			
Area of use	All contri	buting scenarios	Indoor		
Characteristics of the	Profession	onal: Use of coatings	Room volui	me	1 m³



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surroundings	and paints containing		Ventilation rate	0.6 / 1 hour(s)	
oan oan an igo	kieselgu		Release area	200 cm ²	
		calcined			
		onal use of hand	Room volume	2.5 m ³	
	cleaners		Ventilation rate	2 / 1 hour(s)	
			Release area	5 m ²	
	All other	uses	Not defined		
General measures applicab					
Assumes a good basic stand			nplemented. Assumes u	se at not more than	
20°C above ambient tempera					
Clear spills immediately. Afte				3	
Water. Provide basic employe					
Organisational measures		•	•		
All contributing scenarios			al exposure using meas sed systems, properly de		
		maintained facilities	and a good standard o	f general ventilation.	
		Drain down system	s and clear transfer line	s prior to breaking	
			down and flush equipm		
			e. Where there is poten		
			ff are informed of the na	<u>-</u>	
			actions to minimise exp		
			otective equipment is a		
			of waste in accordance v		
			tor effectiveness of conf		
		consider the need for health surveillance; identify and			
Tankaisal ann ditiona at		implement corrective	e actions.		
Technical conditions of use	2	I and autouat range			
All contributing scenarios	roloted to b	Local exhaust reco	mmenaea.		
Risk management measures	related to fi		Moor roopirotory	protoction	
Respiratory protection		All contributing scenarios	Wear respiratory		
Hand and/or Skin protection		All contributing Wear impervious glo			
		scenarios	Wear suitable cov	•	
			exposure to the s		
		All contributing	Wear eye protect		
0.1		scenarios	protection (EN166	ó).	
Other operational conditions					
Assumes a good basic stand			nplemented.		
2.2 Control of environment	aı exposure	9			
Amounts used		100 (
Tonnage in EU per year	tur un ete	120, tonnes			
Fraction of EU tonnage used		10 %			
Regional use tonnage (tons/y		12 tonnes			
Fraction of Regional tonnage locally:	used	Not defined			
Annual site tonnage (tons/yea	Annual site tonnage (tons/year): Not defined				
Maximum daily site tonnage (Not defined			
Environment factors not influe		k management			
Flow rate of receiving surface	e water	2000			
(m³/d):					
Local freshwater dilution factor	or.	10			
Local frestiwater unution factor	<u> </u>	10			
Local marine water dilution fa		100			



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Emission days (days/year):	260
Release fraction to air from process	0
(initial release prior to RMM):	
Release fraction to wastewater from	0.1
process (initial release prior to RMM):	
Release fraction to soil from process	0
(initial release prior to RMM):	
Technical onsite conditions and meas	ures to reduce or limit discharges, air emissions and
releases to soil	• ,
Treat air emission to provide a typical	Not defined
removal efficiency of (%):	
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 (%):	
	es thus conservative process release estimates used. No
wastewater treatment required.	
Organisational measures to prevent/limit	
Vent waste air only via suitable separato	
	nce to or recover from onsite wastewater. Do not apply industrial
sludge to natural soils. Sludge should be	
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
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 m	
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	xposure	prediction				
Exposure assessment ECETOC TRA 2010 (method/calculation model)						
Risk characte	erisation	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



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Professional 95	5% 1	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	n				
Exposure assessment					
(method/calculation model)					
Risk characterisation ratio					
Waste water treatment	C _{STP} =	AMOUNTstp			
		DAYS · INHAB · WASTEW _{inhab}			
	AMOUNT _{STP}	Amount of kieselguhr soda ash flux- calcined released to municipal STPs in the			
		EU per year (1.2E13 mg/Year(s),			
	DAYS	Number of release days (365			
		Days//Year(s)),			
	INHAB	Number of inhabitants in EU (500 million inhabitants)			
	WASTEWinhab	Wastewater per inhabitant (200 L/day)			
	CSTP	Concentration of kieselguhr soda ash flux-			
		calcined in municipal STP (mg/l).			
	Estimated STP C	oncentration (g/L):			
	C _{STP} =	1.2E13 = 0.329 mg/L			
		365 · 500000000 · 200			
Aquatic Compartment (Pelagic)		333 mg/l marine water: 0.00033 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: Kieselguhr is naturally occurring and is considered a natural part of ecosystems.				
Atmospheric Compartment		ted: Deposition is expected to be low.			
Secondary Poisoning	No risk is anticipa	ted: 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 unava	ilable to organisms.			

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.	



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	established for other heals 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	