

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

2015/830

Revision date: 20.09.2017 Version 3.0 Printing date: 29.10.2020

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1.	Identification of the substance / Prep	aration and Company:				
1.1	Product identifier	. ,				
	Commercial product name: Poliresin					
	Product description:	Polishing material				
1.2	Relevant identified uses of the substance					
	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     calcined				
		2 Use as filter aid in industrial settings 13				
		3 Industrial, professional and private use of 16				
		substance or mixtures containing the substance				
	Used Advised Against:	Anything other than the above.				
1.3	Details of the supplier of the safety data					
	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				
	Importer:	Ivoclar Vivadent Ltd				
		12 Omega St, Rosedale, Auckland, New Zealand Phone				
		+64 9 914 9999 Fax +64 9 914 9990				
		www.ivoclarvivadent.co.nz				
1.4	Emergency phone number:	0800 764 766 (National Poison Centre)				
	<b>G</b> 7.	Poisons Hotline (24 hours / 7 days)				
2.	Hazards Identification					
2.1	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.				
2.2	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.				
	Droccutionary Statement(a):	None assigned				

### **3.** 3.1 **Composition / Information on Ingredients**

Precautionary Statement(s):

Substances:

Other hazards:

2.3

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

None assigned.

None.



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	Contains: Cristobalite (Respirable Dust), Crystalline Silica per SWeRF calculation	<1 Fine Fraction	<1	14464-46-1	238-455-4
3.2	Mixtures:	Not applicable.			
4.	First aid measures				
4.1	Description of first aid measures				
	Inhalation:	If breathing is difficence in a position of develops and persecuate dust.	omfortable for b	reathing. If irrit	ation
	Skin contact:	Remove clothing a affected skin with occurs: Get medic	soap and water.	If skin irritation	
	Eye contact:	Flush eyes with wa eyelids open. Get persists.	ater for at least	15 minutes whi	
	Ingestion:	Rinse mouth. Give attention.	e plenty of water	to drink. Get n	nedical
4.2	Most important symptoms and effects, both acute and delayed:	Prolonged and/or silica-containing d fibrosis caused by particles of crystal dryness of the nas and general throat be avoided. May of	ust may cause s deposition in th line silica. Acute al passage and irritation. Chror	silicosis, a nodu e lungs of fine e inhalation car lung congestion ic inhalation o	ular pulmonary respirable n cause on, coughing f dust should
4.3	Indication of any immediate medical attention and special treatment needed:	Unlikely to be requestion. There is no specific keep comfortable	ic antidote. Rem		
5.	Fire-fighting measures				
5.1	Extinguishing media:				
	Suitable extinguishing media:	Non-flammable. E foam or water spra			
5.2	Unsuitable extinguishing media: Special hazards arising from the substance or mixture:	None. Non-flammable, n	on-combustible,	not explosive.	
5.3	Advice for fire-fighters:	Fight fire with norr Fire fighters shoul including self-cont	d wear complete	e protective clo	
6.	Accidental release measures				
6.1	Personal precautions, protective equipment and emergency procedures:	Ensure adequate breathe dust. Wea avoid direct contactor inadequate wea	r appropriate pe ct. Where engine	ersonal protecti eering controls	ve equipment, are not fitted
6.2	Environmental precautions:	No special require		,	-11
6.3	Methods and material for containment and cleaning up:	Sweep spilled sub moisten first to pre collecting spilt mat container for dispo	stances into cor event dusting. Usterials, where pr	se vacuum equ	ipment for
6.4	Reference to other sections:	See sections 8 an			
7.	Handling and Storage				



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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

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:

Incompatible material:

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.

Keep away from Hydrofluoric Acid.

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

#### 8. Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational Exposure limits

Substance	CAS No.	,	LTEL (8 hr	STEL	STEL	Note
		TWA ppm)	TWA mg/m³)	(ppm)	(mg/m³)	
Silica,	-	-	0.1	-	-	WEL: Workplace Exposure
Respirable						Limit (UK HSE EH40)
Crystalline						
Nuisance	-	-	10	-	-	Inhalable Dust. WEL:
Dust						Workplace Exposure Limit
						(UK HSE EH40)
Nuisance	-	-	4	-	-	Respirable Dust. WEL:
Dust						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 <sup>3</sup>	-
Consumer - Long Term - Systemic effects	18.7 mg/kg	0.05 mg/m <sup>3</sup>	-
	bw/dav		

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

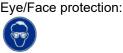
Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational expose limit. Avoid dust generation.

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:



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



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Respiratory protection: Atmospheric levels should be controlled in compliance with



the occupational exposure limit. In case of inadequate ventilation wear respiratory protection. Recommended: Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at

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 available.
Not applicable.
Not available.
Not applicable, solid.

Explosive properties: Not explosive.

Oxidising properties: 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.



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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.

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

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

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 section 16 below).

12.	Ecological information	1
14.	Ecological illiolillation	

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.



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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

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 Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

Notification status in accordance with section 3 and current national legislation.

HSNO Approval: HSR003244

EPA NZ Classes of hazardous properties:

Classification 6.7A Known or presumed human carcinogens Classification 6.9A (All) Toxic to human target organs or systems

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 25<sup>th</sup> 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 25<sup>th</sup> of October 2006. The Agreement was published in the Official Journal of the



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European Union (2006/C 279/02). The text of the agreement and its annexes, including the Good Practice Guide, are available from <a href="http://www.nepsi.eu">http://www.nepsi.eu</a> 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/m³
Workers		Dermal (mg/kg bw/day)	Not determined
	Long Term	Inhalation (mg/m³)	Not determined
	_	Dermal (mg/kg bw/dav)	Not determined



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Consumer	Inhalation (mg/m³)	0.05 mg/m³
	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 in		ndustrial settings	13
Exposure scenario 3	Industrial, professional and private use of substance or mixtures containing the substance		16

# Contributing Scenarios

DD	$\sim$	$\sim$	Codes	
$\Gamma \Gamma$	v	v	Coues	

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)



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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	ERC1 Manufacture of substances
categories [ERC]	
Specific Environmental Release	Not applicable
Categories SPERC	

2.0 Operational conditions and risk management measures				
2.1 Control of worker exposu				
Product characteristics				
Physical form of product		White/Beige Powder		
Concentration of substance in	product	Covers concentrations u	up to 100%	
Human factors not influenced by		nagement		
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:		
Other operational conditions at	fecting wo	rker exposure		
Area of use	U	All contributing scenario	s Indoor	
Characteristics of the surround	ings	Not defined	•	
General measures applicable t		ties		
			nented. Assumes use at not more thar	
			t breathe dust. Avoid dust generation.	
Clear spills immediately. After	contact wit	th skin, wash immediately	with plenty of:	
Water. Provide basic employee	e training t	o prevent / minimize expo	osures.	
Organisational measures				
All contributing scenarios			ing measures such as contained or	
	enclosed systems, properly designed and maintained facilities and a good			
			ain 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			
			available; Clear up spills and dispose o	
			ory requirements; monitor effectiveness	
			need for health surveillance; identify	
<del>-</del>	and implement corrective actions.			
Technical conditions of use	<u> </u>			
PROC4, PROC5, PROC8a,	Local ext	naust ventilation is require	ea.	
PROC8b, PROC9, PROC15,				
PROC19				
PROC1, PROC2, PROC3	Use in closed systems. Local exhaust ventilation is required.			
Risk management measures re				
Respiratory protection	PROC4,	PROC8b, PROC9	Half-face mask (DIN EN 140), Filter	
	BB 0.05		type P2/P3 - efficiency of at least 90	
	PROC2,		No special measures are required.	
Hand and/or Skin protection		buting scenarios	Wear impervious gloves (EN374).	
			Wear suitable coveralls to prevent	
· · ·	A.II		exposure to the skin.	
Eye Protection	All contri	buting scenarios	Wear eye protection with side	
protection (EN166).				



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Other operational conditions affecting worker exposure					
Assumes a good basic standard of occupational hygiene is implemented.					
2.2 Control of environmental exposure	9				
Amounts used	T				
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					
nnual site tonnage (tons/year):					
Maximum daily site tonnage (kg/day):					
Environment factors not influenced by ris					
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	T				
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):					
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 so					
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				
To the second se	cyclones.				
Treat onsite wastewater (prior to	The wastewater resulting from manufacturing of the substance				
receiving water discharge) to provide the required 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.				
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.				
Organisational measures to prevent/limit	release from site				
Prevent discharge of undissolved substa	nce to or recover from onsite wastewater.				
Do not apply industrial sludge to natural					
Sludge should be incinerated, contained or reclaimed.					
Conditions and measures related to mun	icipal sewage treatment plant				
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				
Cubatanaa raleasa musutitiss sittematikiss	cyclones.				
Substance release quantities after risk management measures					



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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)			

			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>&lt;</u> 1	95%	0.25	0.694	
PROC5	<u>&lt;</u> 1	95%	0.25	0.694	
PROC8a	<u>&lt;</u> 1	95%	0.25	0.694	
PROC8b	<u>&lt;</u> 1	95%	0.25	0.694	
PROC9	<u>&lt;</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 environment / Secondary Poisoning	The substance has a low solubility in water and thus is essentially unavailable 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.  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).	



According to Regulation (EC) 1907/2006, (REACH), 1272/2008 (CLP) & 2015/830

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		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 exposi		EUSES
Exposure Scenario 2 – Use as	filter aid	l in industrial setting	s	
1.0 Contributing Scenarios		_		
Sector of uses SU	SU3 Inc	dustrial uses: Uses of s	substances	as such or in preparations at
	industrial sites SU4 Manufacture of food products			
		lanufacture of wood ar		
		lanufacture of pulp, pa		
				emicals (including petroleum
	product	_	,	(
		anufacture of fine chen	nicals	
				roducts, except machinery and
	equipm		ou motal pi	readete, except macrimory and
		Building and construction	n work	
Process category [PROC]		Use in closed process		nood of exposure
l rocess category [r rcoc]				ess with occasional controlled
		re PROC3 Use in close		
	formula		ed baten pi	Tocess (synthesis of
			or process	(cynthocis) whore enpertupity
	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)			
				eration (charging/discharging)
	from/to vessels/large containers at non-dedicated facilities PROC8b Transfer of substance or preparation (charging/discharging)			
		vessels/large containe		
		•		
	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		
Chamical was dust acts some IDC1				
Chemical product category [PC]		her Filtration material I		
	PC14 Metal surface treatment products, including galvanic and			
	electroplating products PC20 Products such as ph-regulators,			
	flocculants, precipitants, neutralization agents PC25 Metal working			
	fluids		orodusts /:-	aduding advant bees
	PC35 Washing and cleaning products (including solvent based			iciuding solvent based
Anti-la Catanania (A.O.)	product			
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			
On ediffe Freedom 115.1			inces in clo	osea systems
Specific Environmental Release	Not app	olicable		
Categories SPERC	l			

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%			



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PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19  PROC2, PROC3  Risk management measures related to human health  Respiratory protection  PROC4, PROC5, PROC8a, PROC9, PROC15, PROC9, PROC15, PROC9, PROC15, PROC19  PROC2, PROC3  All contributing scenarios  Wear respiratory protection.  All contributing scenarios  Wear suitable coveralls to prevent exposure to the skin.  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): Fraction of Regional tonnage used locally: tons/year	I home as for stone most influence of bounded and				
Frequency and duration of use Exposure duration per day Exposure time per week Covers frequency up to: 5 days per week. Other operational conditions affecting worker exposure Area of use All contributing scenarios All contributing scenar	•				
Exposure duration per day Exposure time per week Covers daily exposures up to 5 days per week.  Other operational conditions affecting worker exposure Area of use Area of use Area of use All contributing scenarios 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.  Colear spills immediately. After contact with skin, wash immediately with plenty of: Water. Provide basic employee training to prevent / minimize exposures.  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 PROC9, PROC15, PROC9 Use with local exhaust ventilation or breathing protection.  PROC9, PROC3 Use in closed systems.  Risk management measures related to human health Respiratory protection All contributing scenarios Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.  All contributing scenarios Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.  All contributing scenarios Wear eye protection (EN166).  Wear eye protection with side protection of Regional tonage used ior region: Regional use tonnage (tons/year): Fraction of Regional tonnage used locally tons/year		Not defined			
Exposure time per week Other operational conditions affecting worker exposure All contributing scenarios Characteristics of the surroundings Room volume Nentialition rate O.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 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 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 PROC2, PROC3  Use in closed systems.  Risk management measures related to human health Respiratory protection  All contributing scenarios  All contributing scenarios  All contributing scenarios  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.  Wear eye protection with side protection (EN166).  Not considered to influence the exposure as such for this scenario  Fraction of Equi onnage used in region: Not considered to influence the exposure as such for this scenario					
Other operational conditions affecting worker exposure Area of use	. ,				
Area of use Characteristics of the surroundings Room volume (Note of the surroundings) Room volu			s per week.		
Characteristics of the surroundings  Room volume Ventilation rate Ventilation on to reathing perevide 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 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 PROC3, PROC3, PROC3, PROC3, PROC3, PROC3, PROC3, PROC3, PROC3, PROC9, PROC19 PROC4, PROC5, PROC9,			Indoor		
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 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.  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, PROC19 PROC2, PROC3  Use with local exhaust ventilation or breathing protection.  PROC9, PROC19 PROC2, PROC3  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 (PRO73, PROC19) PROC2, PROC3  No special measures are required.  Wear impervious gloves (PRO731, Wear suitable coveralls to prevent exposure to the skin.  Wear eye protection (EN166).  Other operational conditions affecting worker exposure Assumes a good basic standard of occupational hygiene is implemented.  2.2 Control of environmental exposure Arounts used Fraction of EU tonnage used in region: Regional use tonnage (tons/year): Fraction of Regional tonnage used in region: Regional use tonnage (tons/year): Fract	Characteristics of the surroundings				
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, PROC8b, PROC9a, PROC15, PROC19  PROC9, PROC15, PROC19  PROC9, PROC15, PROC19  PROC9, PROC15, PROC9  PROC6, PROC6, PROC8a, PROC8b, PROC9, PROC6b, PROC6center of the protection with side protection of the protection of	Canaral magaziras applicable to all activ		[0.67   nour(s)		
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, PROC19  PROC2, PROC3  Use with local exhaust ventilation or breathing protection.  Use with local exhaust ventilation or breathing protection.  PROC9, PROC19  PROC9, PROC9, PROC8a, PROC8b, PROC8b, PROC9, PRO	Assumes a good basic standard of occu 20°C above ambient temperature, unles Clear spills immediately. After contact w employee training to prevent / minimize	pational hygiene is implemented s stated differently. Do not breath ith skin, wash immediately with p	ne dust. Avoid dust generation.		
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  PROC2, PROC3  Use with local exhaust ventilation or breathing protection.  PROC4, PROC5, PROC8a, PROC8a, PROC8b, PROC8b, PROC9b,		0			
PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19  PROC2, PROC3  Risk management measures related to human health  Respiratory protection  PROC4, PROC5, PROC8a, PROC9, PROC15, PROC9, PROC15, PROC9, PROC15, PROC19  PROC2, PROC3  All contributing scenarios  Wear respiratory protection.  All contributing scenarios  Wear suitable coveralls to prevent exposure to the skin.  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): Fraction of Regional tonnage used locally: tons/year		maintained facilities and a good Drain down systems and clear containment. Drain down and f prior to maintenance. Where the Ensure relevant staff are informand aware of basic actions to n suitable personal protective eq spills and dispose of waste in a requirements; monitor effective consider the need for health su	d standard of general ventilation. transfer lines prior to breaking lush equipment where possible ere is potential for exposure: ned of the nature of exposure ninimise exposures; Ensure uipment is available; Clear up accordance with regulatory eness of control measures;		
PROC9, PROC15, PROC19 PROC2, PROC3  Risk management measures related to human health Respiratory protection  PROC4, PROC5, PROC8a, PROC8a, PROC8b, PROC9, PROC15, PROC19 PROC2, PROC3  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):  Fraction of Regional tonnage used locally: tons/year	Technical conditions of use	•			
Risk management measures related to human health Respiratory protection  Respiratory protection  PROC4, PROC5, PROC8a, PROC9, PROC15, PROC19  PROC2, PROC3  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): Fraction of Regional tonnage used locally: tons/year	PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19	Use with local exhaust ventilati	on or breathing protection.		
Risk management measures related to human health Respiratory protection  Respiratory protection  Respiratory protection  PROC4, PROC5, PROC8a, PROC8a, PROC19, PROC15, PROC19  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):  Fraction of Regional tonnage used locally: tons/year					
Respiratory protection  PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19  PROC2, PROC3  All contributing scenarios  Eye Protection  All contributing scenarios  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):  Fraction of Regional tonnage used locally: tons/year	Risk management measures related to h	numan health			
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):  Fraction of Regional tonnage used locally: tons/year	Respiratory protection	PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19			
(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):  Fraction of Regional tonnage used locally: tons/year			required.		
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): Fraction of Regional tonnage used locally: tons/year	Hand and/or Skin protection	All contributing scenarios	(EN374). Wear suitable coveralls to prevent 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): Fraction of Regional tonnage used locally: tons/year	Eye Protection	All contributing scenarios			
2.2 Control of environmental exposure  Amounts used  Fraction of EU tonnage used in region: Regional use tonnage (tons/year):  Fraction of Regional tonnage used locally: tons/year					
Amounts used  Fraction of EU tonnage used in region: Regional use tonnage (tons/year):  Fraction of Regional tonnage used locally: tons/year					
Fraction of EU tonnage used in region: Regional use tonnage (tons/year):  Fraction of Regional tonnage used locally: tons/year	-	е			
Regional use tonnage (tons/year): scenario  Fraction of Regional tonnage used locally: tons/year	Amounts used				
	Fraction of EU tonnage used in region: Regional use tonnage (tons/year): Fraction of Regional tonnage used locally: tons/year	<b>-</b>	exposure as such for this		
	Annual site tonnage (tons/year):	2 - 12500			



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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			
Emission days (days/year):	Not defined		
Release fraction to air from process	No risk is anticipated: Atmospheric concentrations are expected		
(initial release prior to	to be low.		
RMM):			
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 is expected to be low.		
(initial release prior to RMM):			
	s 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		
	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 (%):			
	es thus conservative process release estimates used.		
Organisational measures to prevent/limit			
	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)	NI-4 -I-6:		
Degradation effectiveness (%)	Not defined		
Conditions and measures related to exter			
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		
	controlled conditions lit is recommended to bass waste das		
	from manufacturing processes through bag filters, scrubbers or		
Substance release quantities often viet and	from manufacturing processes through bag filters, scrubbers or cyclones.		
Substance release quantities after risk m	from manufacturing processes through bag filters, scrubbers or cyclones. anagement measures		
Release to waste water from process	from manufacturing processes through bag filters, scrubbers or cyclones.		
Release to waste water from process (mg/l)	from manufacturing processes through bag filters, scrubbers or cyclones. anagement measures < 3.87 mg/l		
Release to waste water from process	from manufacturing processes through bag filters, scrubbers or cyclones. anagement measures		

3. Exposure estimation and reference to its source					
3.1 Human exposure prediction					
Exposure assessment ECETOC TRA 2010					



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(method/calculation	model)			
			Inhalation	
Process category [PROC]	Duration	Local Exhaust	inhalation exposure	Risk characterization
[PROC]		Ventilation	(mg/m³)	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	Torovaria. Oral expedicito le met ex			
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: Depositio	n 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 downstrean	nuser			
For scaling see	managed to at least equivalent Available hazard data do not su established for other health effe	sers should ensure that risks are levels. upport the need for a DNEL to be lects. ontrol technologies are provided lorg/en/reach-for- industries- ommendations, the "worst case" only the most stringent RMMs exposure have been taken.		
Exposure assessment	Workers ECETOC TRA 2010			
instrument/tool/method	Environmental exposure	EUSES		

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		



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	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
Process category [PROC]	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
	AC13 Plastic articles
Environmental release categories [ERC]	
	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	Not applicable
Categories SPERC	

2.0 Operational conditions and risk management measures						
2.1 Control of worker exposure						
Product characteristics						
Physical form of product	Solid and Liquid					
Concentration of substance in product	Covers concentrations up to 15%					
Human factors not influenced by risk man	nagement					
Potential exposure area	Not defined					
Frequency and duration of use						
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 water						
	Use of cleaners containing Professional: 60 min/Use					
	kieselguhr soda-ash	Consumer: 20 min/Days				



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		flux calcined				
Exposure frequency		Use of coatings and p	Use of coatings and paints		225 days per year	
. , ,		containing kieselguhr soda ash				
		flux-calcined				
		Use of kieselguhr soda	a ash flux	Professi	onal: Weekly	
		calcined for		Consum	Consumer: Monthly	
		filtering water				
		Use of cleaners containing			onal: < 8 Uses per	
		kieselguhr soda-ash fl	ux calcined	day Consumer: 1 Uses per day		
Other operational conditions a	iffecting wo	rker exposure				
Area of use	All contri	ibuting scenarios	Indoor			
Characteristics of the	Profession	onal: Use of coatings	Room volur	ne	1 m³	
surroundings		its containing	Ventilation	rate	0.6 / 1 hour(s)	
	kieselgu		Release are	ea	200 cm <sup>2</sup>	
	ash flux-					
		onal use of hand	Room volur		2.5 m <sup>3</sup>	
	cleaners	i e	Ventilation		2 / 1 hour(s)	
			Release are		5 m²	
General measures applicabl	All other		Not defined			
		Control any potential contained or enclosed				
		contained or enclosed maintained facilities an Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal protespills and dispose of w	I systems, pro nd a good sta and clear trans wn and flush Where there i are informed c tions to minimective equipm vaste in accor	perly des ndard of g sfer lines p equipmer s potentia of the natu- nise expos- ent is ava- dance wit	igned and general ventilation prior to breaking at where possible al for exposure: ure of exposure sures; Ensure ailable; Clear up th regulatory	
		contained or enclosed maintained facilities at Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal prote spills and dispose of w requirements; monitor	I systems, pro and a good sta and clear trans own and flush Where there it are informed cations to minime ective equipments asset in accor- effectiveness	perly des ndard of g sfer lines p equipmer s potentia of the natu- nise expos- ent is avait dance with	igned and general ventilation orior to breaking at where possible of exposure: are of exposure sures; Ensure ailable; Clear up the regulatory	
		contained or enclosed maintained facilities an Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal prote spills and dispose of w requirements; monitor consider the need for	I systems, pro and a good sta and clear trans own and flush Where there it are informed cations to minimective equipments waste in according to the effectiveness thealth surveilled	perly des ndard of g sfer lines p equipmer s potentia of the natu- nise expos- ent is avait dance with	igned and general ventilation orior to breaking at where possible of exposure: are of exposure sures; Ensure ailable; Clear up the regulatory	
All contributing scenarios		contained or enclosed maintained facilities at Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal prote spills and dispose of w requirements; monitor	I systems, pro and a good sta and clear trans own and flush Where there it are informed cations to minimective equipments waste in according to the effectiveness thealth surveilled	perly des ndard of g sfer lines p equipmer s potentia of the natu- nise expos- ent is avait dance with	igned and general ventilation prior to breaking at where possible al for exposure: are of exposure sures; Ensure ailable; Clear up th regulatory of measures;	
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All contributing scenarios  Technical conditions of use All contributing scenarios Risk management measures r	elated to h	contained or enclosed maintained facilities an Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal prote spills and dispose of wrequirements; monitor consider the need for implement corrective a Local exhaust recommuman health  All contributing	I systems, prond a good stand clear transown and flush Where there is are informed citions to minimective equipmeste in according effectiveness health surveillactions.	perly des ndard of g sfer lines p equipmer s potentia of the natu- nise expos- ent is ava- dance with of contro- lance; ide	igned and general ventilation prior to breaking at where possible al for exposure: ure of exposure sures; Ensure ailable; Clear up th regulatory of measures; ntify and	
All contributing scenarios  Technical conditions of use All contributing scenarios Risk management measures r Respiratory protection  Hand and/or Skin protection	elated to h	contained or enclosed maintained facilities an Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal prote spills and dispose of wrequirements; monitor consider the need for implement corrective a Local exhaust recommuman health  All contributing scenarios  All contributing	I systems, pro nd a good sta and clear trans own and flush Where there i are informed o tions to minim ective equipm vaste in accor effectiveness health surveill actions.  Wear resp	perly des ndard of g sfer lines p equipmer s potentia of the natu- nise expos- ent is ava- dance wit s of contro- lance; ide	igned and general ventilation prior to breaking at where possible al for exposure: ure of exposure sures; Ensure allable; Clear up the regulatory of measures; ntify and otection.	
All contributing scenarios  Technical conditions of use All contributing scenarios Risk management measures r Respiratory protection	elated to h	contained or enclosed maintained facilities ar Drain down systems a containment. Drain do prior to maintenance. Ensure relevant staff a and aware of basic ac suitable personal prote spills and dispose of wrequirements; monitor consider the need for implement corrective a Local exhaust recommuman health  All contributing scenarios	I systems, pro nd a good sta and clear trans own and flush Where there i are informed o tions to minim ective equipm vaste in accor effectiveness health surveill actions.  Wear resp	perly des ndard of gefer lines pequipmer s potentia of the naturalise expositent is availance with soft controllance; ide	igned and general ventilation prior to breaking at where possible al for exposure: ure of exposure sures; Ensure ailable; Clear up th regulatory of measures; antify and  otection.  oves (EN374). ralls to prevent	
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According to Regulation (EC) 1907/2006, (REACH), 1272/2008 (CLP) & 2015/830

Revision date: 20.09.2017 Version 3.0 Printing date: 29.10.2020

Fraction of EU tonnage used in region:	10 %
Regional use tonnage (tons/year):	12 tonnes
Fraction of Regional tonnage used	Not defined
locally:	
Annual site tonnage (tons/year):	Not defined
Maximum daily site tonnage (kg/day):	Not defined
Environment factors not influenced by ris	k management
Flow rate of receiving surface water	2000
(m³/d):	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
Operational conditions	
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 (%):	Not delined
	es thus conservative process release estimates used. No
wastewater treatment required.	3 tilds conscivative process release estimates asea. No
Organisational measures to prevent/limit	release from site
Vent waste air only via suitable separator	
	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 exter	rnal 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 m	
Release to waste water from process	0.012 mg/l
(mg/l)	
Maximum allowable site tonnage	Not defined



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

3. Exposure estimation and reference to its source

2015/830

Revision date: 20.09.2017 Version 3.0 Printing date: 29.10.2020

(MSafe) (kg/d):	

3.1 Human e	xposure	prediction				
Exposure ass	sessmen	t	ECE	TOC TRA 2010		
(method/calc	ulation n	nodel)				
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
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	0.000186		0.0023
paints			
Use of solvent-based	0.000864		0.011
paints			
Use of water-based wall	0.00044		0.0055
paints			
Spray painting (trigger	-	37.5	-
cans)			
Spray painting	-	0.676	-
(pneumatic sprayer)			
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 <sub>STP</sub> =	AMOUNT <sub>STP</sub>		
		DAYS · INHAB · WASTEW <sub>inhab</sub>		
	AMOUNT <sub>STP</sub>	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	inhabitants)		
	WASTEWinhab			
	C <sub>STP</sub>			
	Estimated STP Concentration (g/L):			
	C <sub>STP</sub> =	$\frac{1.2E13}{365 \cdot 500000000 \cdot 200} = 0.329 \text{ mg/L}$		
Aquatic Compartment (Pelagic)	Surface Water: 0.333 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.			



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

4. Evaluation guidance to downstream user				
For scaling see	Conditions are adopted, ther managed to at least equivale Available hazard data do not established for other health of Further details on scaling and in SpERC factsheet (http://celibraries.html).  In accordance with ECHAs reapproach has been taken an	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 / RIVM 2008		
instrument/tool/method	Consumer	RIVM 2008		
	Environmental exposure	EUSES		