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Metroshine - Polishing Compound

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial product name: Metroshine - Polishing Compound

Product description: Polishing material

Chemical name: Diatomaceous Earth Flux-Calcined, Kieselguhr Flux-Calcined

CAS No.: 68855-54-9 14464-46-1 EINECS No.: 272-489-0

238-455-4

REACH Registration No.: 01-2119488518-22-0002

1.2 Recommended use of the chemical and restrictions on use

Identified Use(s): 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

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

substance or mixtures containing the substance
Consumer use; Cosmetics, personal care 20

products

**Used Advised Against:** Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Metrodent Limited

Street / mailbox: Lowergate Works, Lowergate, Paddock

Country code. / postal code / city: Huddersfield HD3 4EP

Phone:

1.4

01484 461616

E-mail / Website:

sales@metrodent.com Metrodent Limited

Further information obtainable from: Emergency telephone number

Metrodent Limited +44 (0) 1484 466700 (Mon-Fri. 9 – 4pm)

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or

mixture:

Contains:

This product contains cristobalite (fine fraction) at: < 1%. 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

referred to as silicosis. Principal symptoms of s 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)

Diatomaceous Earth, Flux-Calcined (Kieselguhr)

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

Hazard Pictogram(s):

Signal Word(s):

None assigned.

None assigned.



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Hazard Statement(s):

Precautionary Statement(s):

None assigned.

None assigned.

**2.3** Other hazards: None.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances:

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

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

**3.2 Mixtures:** Not applicable.

### **SECTION 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.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media:

Suitable extinguishing media: Non-flammable. Extinguish with carbon dioxide, dry chemical,

foam or water spray. As appropriate for surrounding fire.

Unsuitable extinguishing media: None.



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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.

**SECTION 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

and cleaning up:

Sweep spilled substances into containers if appropriate 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.

**SECTION 7: Handling and storage** 

7.1 Precautions for safe handling:

Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the GOOD Practice Guide referred to in section 16. Avoid generation of dust. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Wear protective gloves/protective 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.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

8.1.1 Occupational Exposure limits

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)		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)



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Nuisance	-	-	4	-	-	Respirable Dust. WEL:
Dust						Workplace Exposure Limit
						(UK HSE EH40)

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

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

**8.1.2 Biological limit value:** Not established.

**8.1.3 PNECs and DNELs:** Diatomaceous Earth (Kieselguhr): Not harmful to aquatic

organisms. Insoluble in water. On the basis the PNECs for the

aquatic compartment have not been derived.

Diatomaceous Earth (Kieselguhr) DNELs	Oral	Inhalation	Dermal
Industry - Long Term - Systemic effects	-	0.05 mg/m <sup>3</sup>	-
Consumer - Long Term - Systemic effects	0 0	0.05 mg/m <sup>3</sup>	-
	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.

Eye/Face protection: 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.

Respiratory protection:

(i)

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

least 90%.

Thermal hazards: Not applicable.

**8.2.3 Environmental Exposure Control** Avoid wind dispersal.

### **SECTION 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



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Melting point / freezing point: Not applicable.

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

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

Upper/lower flammability or explosive

limits:

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

<1% Water Solubility(ies):

Soluble in: Hydrofluoric Acid

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

Viscosity: Not applicable, solid.

Explosive properties: Not explosive. Oxidising properties: Not oxidising. Particle Characteristics: Not available.

9.2 Other information: None.

**SECTION 10: Stability and reactivity** 

10.1 Reactivity: Stable under normal conditions.

10.2 **Chemical Stability:** Stable under normal conditions.

10.3 Stable under normal conditions. Possibility of hazardous reactions:

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.

**SECTION 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.



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**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 Information on other hazards

11.2.1 Endocrine disrupting properties: This product does not contain a substance that has endocrine

disrupting properties with respect to humans as no

components meets the criteria.

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



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14.6

14.7

Special precautions for users

Transport in bulk according to Annex

II of MARPOL 73/78 and the IBC Code:

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).

		section 16 below).
SECTIO	ON 12: Ecological information	
12.1	Toxicity:	Not classified as Marine Pollutant.
12.2	Persistence and degradability:	Not applicable.
12.3	Bioaccumulative potential:	The product has no potential for bioaccumulation. Some organisms accumulate Si(OH)4.
12.4	Mobility in soil:	The product is predicted to have low mobility in soil.
12.5	Results of PBT and vPvB assessment:	This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.
12.6	Endocrine disrupting properties:	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria
12.7	Other adverse effects:	None known.
SECTIO	ON 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. Ensure all waste water is collected and treated via a waste water treatment plant.
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.
SECTIO	ON 14: Transport information	
	Not classified according to the United Nati Goods".	ons "Recommendations on the Transport of Dangerous
14.1	UN number:	ADR/RID / IMDG / ICAO/IATA 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.

Not applicable.

Diatomaceous Earth, no special measures are required.

Safety Data Sheet According to Regulation (EC) 1907/2006, (REACH), 1272/2008 (CLP) & 2020/878



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Additional information: None.

**SECTION 15: Regulatory information** 

Safety, Health and Environmental Regulations/Legislation specific for the substance or mixture 15.1

15.1.1 **EU** regulations

Authorisations and/or restrictions on use: None.

15.1.2 **National regulations** 

> Germany: Water hazard class: nwg

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

assessment has been carried out.

**SECTION 16: Other information** 

New SDS Regulation 2020/878 format, all sections have been The following sections contain revisions or new statements:

updated to include new information. Please review SDS with

care.

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

for Diatomaceous Earth (Kieselguhr), soda Flux-Calcined

(CAS No. 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 Derived No Effect Level DNEL:

Predicted No Effect Concentration **PNEC** 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

Exposure scenario 4 Consumer use; Cosmetics, personal care products

# 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 <sup>3</sup>
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 <sup>3</sup>
		Dermal (mg/kg bw/day)	Not determined
		Oral (mg/kg bw/day)	3.5 mg/kg bw/day

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

Contents		
Number of the ES	Title	Page:
Exposure scenario 1	Manufacture of kieselguhr soda ash flux calcined	10
Exposure scenario 2	Use as filter aid in industrial settings	13
Exposure scenario 3	Industrial, professional and private use of substance or mixtures containing the substance	16
Exposure scenario 4	Consumer use; Cosmetics, personal care products	20

#### **Contributing Scenarios**

PROC Codes	
TPROC Codes	



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PROC1	Use in closed process, no likelihood of exposure
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7	Industrial spraying
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
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	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 exposure			
Product characteristics			
Physical form of product	White/Beige Powder		
Concentration of substance in product	Covers concentrations up to 10	Covers concentrations up to 100%	
Human factors not influenced by risk management			
Potential exposure area	Not defined		
Frequency and duration of use			
Exposure duration per day	Covers daily exposures up to 8 hours (unless stated differently).		
Exposure time per week	Covers frequency up to: 5 days per week.		
Other operational conditions affecting	Other operational conditions affecting worker exposure		
Area of use	All contributing scenarios	Indoor	



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Characteristics of the surroundings Not defined					
	General measures applicable to all activities				
Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than					
20°C above ambient temperature, unless stated differently. Do not breathe dust. Avoid dust generation.					
Clear spills immediately. After contact with skin, wash immediately with plenty of:					
Water. Provide basic employee					
Organisational measures	,	<u> </u>			
All contributing scenarios	Control any potential exposure using measures such as contained or				
J 3			ned and maintained facilities and a good		
	standard of general ventilation. Drain down systems and clear transfer				
			t. Drain down and flush equipment		
	where po	ssible prior to maintenan	ce. Where there is potential for		
	exposure	e: Ensure relevant staff ar	e informed of the nature of exposure		
			mise exposures; Ensure suitable		
			available; Clear up spills and dispose of		
			ry requirements; monitor effectiveness		
			need for health surveillance; identify		
	and imple	ement corrective actions.			
Technical conditions of use	I				
PROC4, PROC5, PROC8a,	Local exh	naust ventilation is require	ed.		
PROC8b, PROC9, PROC15,					
PROC19					
PROC1, PROC2, PROC3	Use in closed systems. Local exhaust ventilation is required.				
Risk management measures			Holf for a moral (DIN EN 440) Eller		
Respiratory protection	PROC4,	PROC8b, PROC9	Half-face mask (DIN EN 140), Filter		
	PROC2,	DDOC2	type P2/P3 - efficiency of at least 90%		
Hand and/or Skin protection		buting scenarios	No special measures are required. Wear impervious gloves (EN374).		
Hand and/or Skin protection	All Contin	butting scenarios	Wear suitable coveralls to prevent		
			exposure to the skin.		
Eye Protection	All contri	huting scenarios	Wear eye protection with side		
Lyc i rotection	All contributing scenarios		protection (EN166).		
Other operational conditions	Other operational conditions affecting		protection (ETTTO).		
			nented		
Assumes a good basic standard of occupational hygiene is implemented.  2.2 Control of environmental exposure			ionica.		
Amounts used	охросите				
Fraction of EU tonnage used in	region:				
Regional use tonnage (tons/yea		Not considered to influence the exposure as such for this			
Fraction of Regional tonnage u		scenario			
locally: tons/year					
Annual site tonnage (tons/year)	):				
	Maximum daily site tonnage (kg/day):				
Environment factors not influenced by risk management					
			Not defined (default = 18,000)		
(m³/d):		`	,		
Local freshwater dilution factor:		10			
Local marine water dilution factor:		100			
Operational conditions					
Emission days (days/year):	•				
Release fraction to air from process		Not defined  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):					



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Release fraction to soil from process (initial release prior to RMM):	No risk is anticipated: Deposition is expected to be low.		
	ures 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.		
Note: Common practices vary across sites thus conservative process release estimates used.			
Organisational measures to prevent/limit release from site			
Prevent discharge of undissolved substance to or recover from onsite wastewater.			
Do not apply industrial sludge to natural soils.			
Sludge should be incinerated, contained or reclaimed.			
Conditions and measures related to municipal sewage treatment plant			
Size of municipal sewage Not defined system/treatment plant (m³/d)			
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 from manufacturing processes through bag filters, scrubbers or cyclones.		
Substance release quantities after risk management 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 exposure	e prediction			
Exposure assessmer	nt	ECETOC TRA	x 2010	
(method/calculation n	nodel)			
Inhalation			ation	
Process category	Duration	Local	inhalation exposure	Risk
[PROC]		Exhaust	(mg/m³)	characterization
		Ventilation		ratio (RCR)
PROC1	4 – 8	None	0.01	0.028
PROC2	4 – 8	90%	0.1	0.278
PROC3	4 – 8	90%	0.1	0.278
PROC4	<u>&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; 1</u>	95%	0.25	0.694



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

4. Evaluation guidance to do	wnstream u	ser	
For scaling see		Where other Risk Management Measures/Operational	
		Conditions are adopted, then users should ensure that risks are	
	m	nanaged to at least equivalent I	evels.
	A <sup>-</sup>	vailable hazard data do not su	pport the need for a DNEL to be
	es	stablished for other health effe	cts.
	F	urther details on scaling and co	ontrol technologies are provided
	in	SpERC factsheet (http://cefic.	org/en/reach-for- industries-
	lik	oraries.html).	
	In	accordance with ECHAs reco	mmendations, the "worst case"
		pproach has been taken and o	
		ecommended for each route of	
Exposure assessment		/orkers	ECETOC TRA 2010
instrument/tool/method		nvironmental exposure	EUSES
Exposure Scenario 2 – Use a	s filter aid ir	n industrial settings	
1.0 Contributing Scenarios	1		
Sector of uses SU		strial uses: Uses of substances	
		sites SU4 Manufacture of food	
		nufacture of wood and wood pi	
		nufacture of pulp, paper and pa	
		ufacture of bulk, large scale ch	emicals (including petroleum
	products)	ufacture of fine chemicals	
			raduata ayaant maahinaru and
	equipmen		roducts, except machinery and
Process category [PROC]	SU19 Building and construction work  PROC1 Use in closed process, no likelihood of exposure		acad of exposure
100e33 category [FIXOC]		lse in closed process, no likelii Ise in closed, continuous proce	
		PROC3 Use in closed batch p	
	formulatio	•	Cocco (Syntholic of
		lse in batch and other process	(synthesis) where opportunity
		ure arises	(3)
<u> </u>	1.0. 0		

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	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
Environmental release	ERC1 Manufacture of substances ERC2 Formulation of preparations
categories [ERC]	ERC4 Industrial use of processing aids in processes and products, not
	becoming part of articles. ERC6b Industrial use of reactive processing
	aids
	ERC7 Industrial use of substances in closed systems
Specific Environmental Release	Not applicable
Categories SPERC	

2.0 Operational conditions and risk n	nanagement 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	management	·
Potential exposure area	Not defined	
Frequency and duration of use	•	
Exposure duration per day	Covers daily exposures up to	8 hours (unless stated differently).
Exposure time per week	Covers frequency up to: 5 days per week.	
Other operational conditions affecting worker exposure		
Area of use	All contributing scenarios	Indoor
Characteristics of the surroundings	Room volume	50 m <sup>3</sup>
-	Ventilation rate	0.6 / 1 hour(s)
General measures applicable to all ad	ctivities	
Assumes a good basic standard of occu	inational hygiene is implemente	ed. Assumes use at not more than

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 / mir	nimize 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



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Table in land Pitters of the	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	Tr. 91 1 1 4 29 4	
PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19	Use with local exhaust ventilat	ion or breathing protection.
PROC2, PROC3	Use in closed systems.	
Risk management measures related to	o human 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 we		
Assumes a good basic standard of occu	pational hygiene is implemented	l
2.2 Control of environmental exposur	e	
Amounts used		
Fraction of EU tonnage used in region:	Not considered to influence the	e exposure as such for this
Regional use tonnage (tons/year):	scenario	
Fraction of Regional tonnage used		
locally: tons/year		
Annual site tonnage (tons/year):	2 - 12500	
Maximum daily site tonnage (kg/day):	Not determined.	
Environment factors not influenced b		
Flow rate of receiving surface water (m³/d):	Not defined (default = 18,000)	
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 (initial release prior to RMM):	No risk is anticipated: Atmospl to be low.	neric concentrations are expected
Release fraction to wastewater from	100 mg/l	
process (initial release prior to RMM): Release fraction to soil from process	No risk is anticipated: Depositi	on is expected to be low
(initial release prior to RMM):	No risk is anticipated. Depositi	on is expected to be low.
Technical onsite conditions and measureleases to soil	sures to reduce or limit discha	rges, air emissions and
Treat air emission to provide a typical	Not defined. It is recommende	d to pass waste gas from
removal efficiency of (%):	manufacturing processes throughous.	
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%):	The wastewater resulting from can be treated by sedimentation	manufacturing of the substance on to remove the solid parts of the is very efficient with a reduction



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If discharging to domestic sewage	The wastewater resulting from manufacturing of the substance
treatment plant, provide the required	can be treated by sedimentation to remove the solid parts of the
onsite wastewater removal efficiency of	substance. The sedimentation is very efficient with a reduction
(%):	efficacy of 99% or more.
Treat soil emission to provide a typical	Not defined
removal efficiency of (%):	
Note: Common practices vary across site	es thus conservative process release estimates used.
Organisational measures to prevent/lin	mit release from site
Prevent discharge of undissolved substant	nce to or recover from onsite wastewater. Do not apply industrial
sludge to natural soils. Sludge should be	incinerated, contained or reclaimed.
Conditions and measures related to 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 ex	kternal treatment of waste for disposal
Type of waste	Solid and Liquid and Gas
Disposal technique	Bury on an authorised landfill site or incinerate under approved
	controlled conditions. It is recommended to pass waste gas
	from manufacturing processes through bag filters, scrubbers or
	cyclones.
Substance release quantities after risk	management measures
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 me	odel)				
			Inhalation		
Process category	Duration	Local	inhalation exposure	Risk	
[PROC]		Exhaust	(mg/m³)	characterization	
		Ventilation		ratio (RCR)	
PROC2	4 – 8	None	0.147	0.408	
PROC3	4 – 8	None	0.147	0.408	
PROC4	4 – 8	None	0.147	0.408	
PROC5	4 – 8	None	0.147	0.408	
PROC8a	4 – 8	None	0.147	0.408	
PROC8b	4 – 8	None	0.147	0.408	
PROC9	4 – 8	None	0.147	0.408	
PROC15	4 – 8	None	0.147	0.408	
PROC19	8	None	0.147	0.408	
			exposure is not expected to	occur.	
3.2 Environmental ex	posure prediction	n			
Exposure assessment		EUSES			
(method/calculation method/calculation method/calcu	odel)				
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	Aquatic Compartment (Pelagic)		Not defined: Reasonable worst-case local PECs are below the		
		no effect level			



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	(3.87 mg/l): 0.387/0.0387 mg/l			
freshwater sediment/marine sediment	No risk is anticipated: Kieselguhr is naturally occurring and is			
	considered a natural part of ecosystems.			
Soil	No risk is anticipated: Deposition	n is expected to be low.		
Atmospheric Compartment	No risk is anticipated: Atmosphe	eric concentrations are expected		
	to be low.			
Indirect exposure to humans via the	The substance has a low solubil	ity in water and thus is		
environment / Secondary	essentially unavailable to organi	sms.		
Poisoning				
4. Evaluation guidance to downstream	n user			
For scaling see	Where other Risk Management Measures/Operational			
	Conditions are adopted, then users should ensure that risks are			
	managed to at least equivalent levels.			
	Available hazard data do not support the need for a DNEL to be			
	established for other health effects.			
	Further details on scaling and co			
	in SpERC factsheet (http://cefic.	org/en/reach-for- industries-		
	libraries.html).			
	In accordance with ECHAs reco			
	approach has been taken and only the most stringent RMMs			
	recommended for each route of exposure have been taken.			
Exposure assessment	Workers ECETOC TRA 2010			
instrument/tool/method	Environmental exposure EUSES			

containing the substance	professional and private use of substance or mixtures
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 or 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



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	<del>-</del>
Environmental release categories	ERC1 Manufacture of substances
[ERC]	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	Not applicable
Categories SPERC	

2.1 Control of worker exposi Product characteristics	ıre					
Dhuaisal fama af anadust						
Physical form of product		Solid and Liquid	Solid and Liquid			
Concentration of substance in	product	Covers concentrations	s up to 15%			
Human factors not influence	d by risk	management				
Potential exposure area		Not defined				
Frequency and duration of use	)					
Exposure duration		Use of coatings and p	aints	4 – 8 ho	urs	
		containing kieselguhr				
		soda ash flux-calcined				
		Use of kieselguhr soda		1 hour/d	ays	
		calcined for filtering wa				
		Use of cleaners conta	ining		onal: 60 min/Use	
		kieselguhr soda-ash		Consum	er: 20 min/Days	
		flux calcined				
Exposure frequency		Use of coatings and p		225 days per year		
		containing kieselguhr soda ash flux-calcined				
		Use of kieselguhr soda ash flux		Drofocci	onal: Weekly	
		calcined for			er: Monthly	
		filtering water		Consum	er. Moritiny	
		Use of cleaners conta	ining	Professi	onal: < 8 Uses per	
		kieselguhr soda-ash flux calcined		day Consumer: 1 Uses per		
		Theodigani odda don naz calomod		day		
Other operational conditions	affecting	worker exposure		1		
Area of use		buting scenarios	Indoor			
Characteristics of the		onal: Use of coatings	Room volume		1 m <sup>3</sup>	
surroundings	and pain	ts containing	Ventilation rate		0.6 / 1 hour(s)	
-	kieselguhr soda		Release area		200 cm <sup>2</sup>	
	ash flux-	calcined				
		onal use of hand	Room volur		2.5 m <sup>3</sup>	
	cleaners		Ventilation		2 / 1 hour(s)	
			Release area		5 m <sup>2</sup>	
	All other		Not defined			
General measures applicable	e to all act	tivities				



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20°C above ambient temperature, unless stated differently. Do not breathe dust. Avoid dust generation.				
Clear spills immediately. After contact w				
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				
All contributing scenarios	Local exhaust recomme	ended.		
Risk management measures related t	o human health			
Respiratory protection	All contributing scenarios	Wear respiratory protection.		
Hand and/or Skin protection	All contributing scenarios	Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.		
Eye Protection	All contributing scenarios	Wear eye protection with side protection (EN166).		
Other operational conditions affecting	g worker exposure	, ,		
Assumes a good basic standard of occu	pational hygiene is impler	nented.		
2.2 Control of environmental exposur	е			
Amounts used				
Tonnage in EU per year	120, tonnes			
Fraction of EU tonnage used in region:	10 %			
Regional use tonnage (tons/year):	12 tonnes			
Fraction of Regional tonnage used locally:	Not defined			
Annual site tonnage (tons/year):	Not defined			
Maximum daily site tonnage (kg/day):	Not defined			
Environment factors not influenced by ris	sk management			
Flow rate of receiving surface water (m³/d):	2000			
Local freshwater dilution factor:	10			
Local marine water dilution factor:	100			
Operational conditions				
Emission days (days/year):	260			
Release fraction to air from process (initial release prior to RMM):	0			
Release fraction to wastewater from	0.1			
process (initial release prior to RMM):				
Release fraction to soil from process (initial release prior to RMM):	0			

Assumes a good basic standard of occupational hygiene is implemented. Assumes use at not more than



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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 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. No		
wastewater treatment required.			
Organisational measures to prevent/li			
Vent waste air only via suitable separato			
Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial			
sludge to natural soils. Sludge should be			
Conditions and measures related to m			
Size of municipal sewage	Not defined		
system/treatment plant (m³/d)			
Degradation effectiveness (%)	Not defined		
	xternal 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 risl			
Release to waste water from process (mg/l)	0.012 mg/l		
Maximum allowable site tonnage (MSafe) (kg/d):	Not defined		

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

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



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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 predictio	n		
Exposure assessment			
(method/calculation model)			
Risk characterisation ratio			
Waste water treatment	C <sub>STP</sub> =	AMOUNTstp	
		DAYS · INHAB · WASTEW <sub>inhab</sub>	
	AMOUNTstp	Amount of kieselguhr soda ash flux- calcined released to municipal STPs in the	
	DAVO	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)	
	C <sub>STP</sub>	Concentration of kieselguhr soda ash flux-calcined in municipal STP (mg/l).	
	Estimated STP Co	. ,	
	C <sub>STP</sub> =	1.2E13 = 0.329 mg/L	
		365 · 500000000 · 200	
Aquatic Compartment (Pelagic)	Surface Water: 0.3		
	marine water: 0.00	· ·	
freshwater sediment/marine sediment		ed: Kieselguhr is naturally occurring and is	
		al part of ecosystems.	
Soil		ed: Kieselguhr is naturally occurring and is	
	considered a natural part of ecosystems.		
Atmospheric Compartment	No risk is anticipated: Deposition is expected to be low.		
Secondary Poisoning	No risk is anticipated: Atmospheric concentrations are expected to be low.		
Indirect exposure to humans via the	The substance has	s a low solubility in water and thus is	
environment / Secondary Poisoning	essentially unavaila		

4. Evaluation guidance to downstream user			
For scaling see	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	users should ensure that risks are nt levels. support the need for a DNEL to be	
Exposure assessment	Workers	ECETOC TRA 2010 / RIVM 2008	
instrument/tool/method	Consumer	RIVM 2008	
	Environmental exposure	EUSES	



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Exposure Scenario 4 – Consumer use; Cosmetics, personal care products			
1.0 Contributing Scenarios			
Sector of uses SU	SU21 Consumer uses: Private households (= general public = consumers)		
Process category [PROC]	Not applicable		
Chemical product category [PC]	PC39 Cosmetics, personal care products		
Article Categories [AC]	Not applicable		
Environmental release categories [ERC]	ERC8a Wide dispersive indoor use of processing aids in open systems		
Specific Environmental Release Categories SPERC	Not applicable		

2.0 Operational conditions and risk management measures				
2.1 Control of worker exposure				
Product characteristics				
Physical form of product	Not defined			
Concentration of substance in product	Not defined			
Conditions of use affecting exposure				
In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation				
and risk characterisation for human health does not need to be performed for end uses in cosmetic				
products within the scope of Directive 76/768/EEC.				
Risk management measures				
Respiratory protection	No specific measures identified.			
Hand/Skin protection	No specific measures identified.			
Eye Protection	No specific measures identified.			
2.2 Control of environmental exposure				
Conditions of use affecting exposure				
Daily local widespread use amount	< 300 g/Day			
Dispose of waste product or used containers according to local regulations. Waste water of facility is				
assumed to be treated in municipal waste water treatment.				

3. Exposure estimation and reference to its source				
3.1 Human exposure prediction				
In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation				
and risk characterisation for human	n healt	h does not need to be perforr	med for end uses in cosmetic	
products within the scope of Direct	ive 76/	768/EEC.		
3.2 Environmental exposure prediction				
Exposure assessment		EUSES		
(method/calculation model)				
Environmental Release				
Water		0.302 kg/day (ERC)		
Air		0.302 kg/day (ERC)		
Soil		0 kg/day (ERC)		
Risk characterisation ratio				
Protection target	Exposure estimation		Risk characterisation ratio	
Sewage Treatment Plant	0.151 mg/l (EUSES 2.1.2)		< 0.01	
Man via environment - Inhalation	2.06E-6 mg/m <sup>3</sup> (EUSES 2.1.2)		< 0.01	
Man via environment - Oral	5.67E-4 mg/kg bw/day (EUSES		< 0.01	
	2.1.2	)		
Man via environment - Combined	-		< 0.01	

Safety Data Sheet According to Regulation (EC) 1907/2006, (REACH), 1272/2008 (CLP) & 2020/878



Date of issue: 22 June 2023

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4. Evaluation guidance to downstream user		
If safe use conditions stated in the exposure scenario cannot be enforced, alternatives measures must be		
equivalent or better than those stated in this exposure scenario		
For scaling see	EUSES v. 2.1.2	
_	Guidance is based on assumed operating conditions which may	
	not be applicable to all sites; thus, scaling may be necessary to	
	define appropriate site-specific risk management measures.	

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