Revision: 5.2 Date: 21.03.2024

Minerals

ACCORDING TO EC-REGULATIONS 1907/2006

(REACH), 1272/2008 (CLP) & 2020/878

Diatomaceous Earth Flux-Calcined, Kieselguhr Flux-Calcined Celatom® FW-6, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, SP, AW-12, AW-14, AW-18, AW-20

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Celatom® FW-6, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70,

FW- 80, SP, AW-12, AW-14, AW-18, AW-20

Trade names Celatom® FW-6, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-

60, FW-70, FW- 80, SP, AW-12, AW-14, AW-18, AW-20

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

Nanoform The product does not contain nanoparticles

REACH Registration No. 01-2119488518-22-0002

1.2 Recommended use of the chemical and restrictions

on use

1.3

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

Page:

1 Manufacture of kieselguhr soda ash flux calcined
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13

Industrial, professional and private use of substance or mixtures containing the substance
 Consumer use; Cosmetics, personal care products

Uses Advised Against

Details of the supplier of the safety data sheet

Manufacturer

Anything other than the above.

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Languages spoken: English, French and German USA: +1-775-824-7600 (08:00– 17:00 PST)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

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

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

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

Product Name Celatom® FW-6, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-

70, FW-80, SP, AW-12, AW-14, AW-18, AW-20

Contains: Diatomaceous Earth , Flux-Calcined (Kieselguhr)

(< 1% Crystalline Silica – Cristobalite (Respirable Dust))

Hazard Pictogram(s)

None assigned.

Signal Word(s) None assigned.

Hazard Statement(s)

None assigned.

Precautionary Statement(s)

None assigned.

2.3 Other hazards None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

2.2

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

Chemical identity of the substance	%W/W	CAS No.	EC No.
Diatomaceous Earth , Flux-Calcined (Kieselguhr)	circa.100	68855-54-9	272-489-0
Contains: Cristobalite (Respirable Dust), <1 Fine Fraction Crystalline silica per SWeRF	_ 1	14464-46-1	238-455-4
calculation	` '	14404 40 1	200 400 4

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. Flush eyes with water for at least 15 minutes while holding eyelids open. Get

medical attention if eye irritation develops or persists.

Rinse mouth. Give plenty of water to drink. Get medical attention.

4.2 Most important symptoms and effects, both acute and Prolonge

delayed

Eye Contact

Ingestion

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.

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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media 5.1

> Suitable Extinguishing media Non-flammable. Extinguish with carbon dioxide, dry chemical, foam or

> > waterspray. As appropriate for surrounding fire.

Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture 5.3 Advice for fire-fighters

Non-flammable, Non-combustible, Not explosive.

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

Sweep spilled substances into containers if appropriate moisten first to prevent

protective equipment. No special requirements.

Environmental precautions 6.2

Methods and material for containment and cleaning 6.3

dusting. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal.

6.4 Reference to other sections See Section: 8, 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 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

Storage life

7.3

Incompatible materials Specific end use(s)

Atmospheric concentrations should be minimised and kept as low as reasonably practicable below the occupational exposure limit.

Stable under normal conditions. Store in a dry place.

Keep away from: Hydrofluoric Acid

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

Occupational Exposure Limits 8.1.1

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

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.

PNECs and DNELs 8.1.3

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

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

8.2 **Exposure controls**

8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

compliance with the occupational exposure limit. Avoid dust generation. Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe dust.

Ensure adequate ventilation. Atmospheric levels should be controlled in

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

gloves materials

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 Controls** Avoid wind dispersal.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Light pink to 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

Non-flammable. Flash point Evaporation rate Not applicable. Flammability (solid, gas) Non-flammable. Upper/lower flammability or explosive limits Non-flammable.

Vapour pressure Not applicable. Vapour density Not applicable. $2.3 \text{ g/cm}^3 (H_2O = 1)$ Relative density Solubility(ies) <1% Water

Soluble in: Hydrofluoric Acid

Partition coefficient: n-octanol/water Not available. Auto-ignition temperature Not applicable **Decomposition Temperature** Not available. Viscosity Not applicable, Solid. Explosive properties Not explosive. Oxidising properties Not oxidising. Particle Characteristics

9.2 Other information None.

Not available.

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SECTION 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
 10.6 Hazardous decomposition product(s)
 Reacts violently with - Hydrofluoric Acid
 No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Ingestion Inhalation Skin Contact Eye Contact

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

- 11.2 Information on other hazards11.2.1 Endocrine disrupting properties
- 11.2.2 Other information

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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. 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 that 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, Lvon. France.) In 2009, in the Monographs 100 series, IARC confirmed its classification of Silica Dust, Crystalline, in the form of Quartz and Cristobalite (IARC Monographs, Volume 100C, 2012). In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of fine fraction crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in guarries and in the ceramic industry). Therefore 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).

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SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Not classified as a 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.

SECTION 13: DISPOSAL CONSIDERATIONS

02011	ON 10. DIGI COAL CONCIDENATIONS	
13.1	Waste treatment methods	Dispose of empty containers and wastes safely. Dispose of contents in accordance with local, state or national legislation. Ensure all waste water is
13.2	Additional Information	collected and treated via a waste water treatment plant. 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.

SECTION 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 or ID number	Not applicable.
14.2	UN proper shipping name	Not applicable.
14.3	Transport hazard class(es)	Not applicable.
14.4	Packing group	Not applicable.
14.5	Environmental hazards	Not classified as a Marine Pollutant.
14.6	Special precautions for user	Not applicable.
14.7	Maritime transport in bulk according to IMO instruments	Diatomaceous Earth , No special measures are required.
14.8	Additional Information	None.

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental	
	regulations/legislation specific for the substance or	
	mixture	
15.1.1	EU regulations	
	Authorisations and/or Restrictions On Use	None.

15.1.2 National regulations
Germany Water hazard class: nwg

15.2 Chemical Safety Assessment Subject to REACH Registration, A REACH chemical safety assessment has

been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 14, 15

References: Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for Diatomaceous Earth (Kieselguhr), Soda Flux-Calcined (CAS No. 68855-54-9).

Training advice: 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 April 2006. This autonomous agreement, which receives the European

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Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 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 Practices Guide, are available from http://www.nepsi.eu and provide useful information and guidance for the handling of products containing fine fraction crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

LEGEND

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

PNEC Predicted No Effect Concentration

PBT PBT: Persistent, Bioaccumulative and Toxic

vPvB vPvT: very Persistent and very Toxic

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

IARC 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

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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 K _{OW})	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		
Workers	Long Term	Inhalation (mg/m³)	Not determined		
		Dermal (mg/kg bw/day)	Not determined		
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

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Contributing Scenarios

PROC Codes

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

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Error! Not a valid bookmark self-reference. Exposure Scenario 1 – Manufacture of kieselguhr soda ash flux calcined

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

2.1 Control of worker exposure			
Product characteristics			
Physical form of product	White/Beige Powde	er	
Concentration of substance in product	Covers concentration		00%
Human factors not influenced by risk ma	anagement	•	
Potential exposure area	Not defined		
Frequency and duration of use	•		
Exposure duration per day	Covers daily expos	ures up to 8	3 hours (unless stated differently).
Exposure time per week	Covers frequency u		
Other operational conditions affecting w		1	
Area of use	All contributing sce	narios	Indoor
Characteristics of the surroundings	Not defined		
General measures applicable to all activ	ities		
Assumes a good basic standard of occupat stated differently. Do not breathe dust. Avoi Water. Provide basic employee training to p	d dust generation. Clea	r spills imm	umes use at not more than 20°C above ambient temperature, unless ediately. After contact with skin, wash immediately with plenty of:
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, PROC9, PROC15, PROC19	Local exhaust venti	Local exhaust ventilation is required.	
PROC1, PROC2, PROC3		ms. Local e	exhaust ventilation is required.
Risk management measures related to h	uman health		
Respiratory protection	PROC4, PROC8b,	PROC9	Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90%
	PROC2, PROC3		No special measures are required.
Hand and/or Skin protection	All contributing sce	narios	Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.
Eye Protection	All contributing sce	narios	Wear eye protection with side protection (EN166).
Other operational conditions affecting w			
Assumes a good basic standard of occupat	ional hygiene is implem	ented.	
2.2 Control of environmental exposure			
Amounts used	-		
Fraction of EU tonnage used in region:		Not considered to influence the exposure as such for this scenario	
Regional use tonnage (tons/year):		1401 0011310	iorea to illinacine the exposure as such for this section

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Fraction of Regional tonnage used locally: tons/year				
Annual site tonnage (tons/year):				
Maximum daily site tonnage (kg/day): Environment factors not influenced by risk management				
	Not defined (default 10,000)			
Flow rate of receiving surface water (m³/d): Local freshwater dilution factor:	Not defined (default = 18,000)			
Local marine water dilution factor:	100			
Operational conditions	100			
	Not defined			
Emission days (days/year):	Not defined			
Release fraction to air from process (initial release prior to RMM):	No risk is anticipated: Atmospheric concentrations are expected to be low.			
Release fraction to wastewater from process (initial release prior to RMM):	100 mg/l			
Release fraction to soil from process (initial release prior to RMM):	No risk is anticipated: Deposition is expected to be low.			
Technical onsite conditions and measures to reduce or limit of	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			
Treat all ethission to provide a typical removal efficiency of (%).	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 on	site wastewater.			
Do not apply industrial sludge to natural soils.				
Sludge should be incinerated, contained or reclaimed.				
Conditions and measures related to municipal sewage treatm				
Size of municipal sewage system/treatment plant (m³/d)	Not defined			
Degradation effectiveness (%)	Not defined			
Conditions and measures related to external treatment of was				
Type of waste	Solid and Liquid and Gas			
	Bury on an authorised landfill site or incinerate under approved controlled			
Disposal technique	conditions. It is recommended to pass waste gas from manufacturing processes			
Out of an analysis of the state	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	prediction

Exposure assessment (method/calculation model) ECETOC TRA 2010

			Inf	nalation
Process category [PROC]	Duration	Local Exhaust Ventilation	inhalation exposure (mg/m³)	Risk characterisation ratio (RCR)
PROC1	4 – 8	None	0.01	0.028
PROC2	4 – 8	90%	0.1	0.278
PROC3	4 – 8	90%	0.1	0.278
PROC4	<u><</u> 1	95%	0.25	0.694
PROC5	<u><</u> 1	95%	0.25	0.694
PROC8a	<u><</u> 1	95%	0.25	0.694
PROC8b	<u><</u> 1	95%	0.25	0.694
PROC9	<u><</u> 1	95%	0.2	0.556
PROC15	4 – 8	95%	0.25	0.694
PROC19	< 1	95%	0.25	0.694

Dermal exposure is considered to be not relevant.

Oral exposure is not expected to occur.

3.2 Environmental exposure prediction

Exposure assessment (method/calculation model) EUSES

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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 d	downstream user	
For scaling see	are managed to at least equivalent Available hazard data do not supp Further details on scaling and cont industries-libraries.html).	ort the need for a DNEL to be established for other health effects. crol technologies are provided in SpERC factsheet (http://cefic.org/en/reach-formendations, the "worst case" approach has been taken and only the most stringent
Exposure assessment	Workers	ECETOC TRA 2010
instrument/tool/method	Environmental exposure	EUSES

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Exposure Scenario 2 – Use as filter aid in industrial settings

1.0 Contributing Scenarios	
Sector of uses SU	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU4 Manufacture of food products SU6a Manufacture of wood and wood products SU6b Manufacture of pulp, paper and paper products SU8 Manufacture of bulk, large scale chemicals (including petroleum products) SU9 Manufacture of fine chemicals SU15 Manufacture of fabricated metal products, except machinery and equipment SU19 Building and construction work
Process category [PROC]	PROC1 Use in closed process, no likelihood of exposure PROC2 Use in closed, continuous process with occasional controlled exposure PROC3 Use in closed batch process (synthesis or formulation) PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15 Use as laboratory reagent PROC19 Hand-mixing with intimate contact and only PPE available
Chemical product category [PC]	PC0 Other Filtration material PC2 Adsorbents PC14 Metal surface treatment products, including galvanic and electroplating products PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents PC25 Metal working fluids PC35 Washing and cleaning products (including solvent based products)
Article Categories [AC]	Not applicable
Environmental release categories [ERC]	ERC1 Manufacture of substances ERC2 Formulation of preparations ERC4 Industrial use of processing aids in processes and products, not becoming part of articles. ERC6b Industrial use of reactive processing aids ERC7 Industrial use of substances in closed systems
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	Light pink to white powder			
Concentration of substance in product	White/Beige Powder Covers of	oncentrations up to 100%		
Human factors not influenced by risk mana	agement			
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 day	s per week.		
Other operational conditions affecting wor	ker exposure			
Area of use	All contributing scenarios Indoor			
Characteristics of the surroundings	Room volume	50 m³		
Characteristics of the surroundings	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.				
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			

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1				
	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	nood for noditinod	rvolliarioo, ic	and implement confedere decience.	
PROC4, PROC5, PROC8a, PROC8b,	The south terral and		Para and have at letter an analysis them	
PROC9, PROC15, PROC19	Use with local exh	aust ventilat	ion or breathing protection.	
PROC2, PROC3	Use in closed syst	ems.		
Risk management measures related to hui				
	PROC4, PROC5,			
Respiratory protection	PROC8b, PROC9		Wear respiratory protection.	
	PROC15, PROC1	9	No an acial management and manifes d	
	PROC2, PROC3		No special measures are required.	
Hand and/or Skin protection	All contributing sce		Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.	
Eye Protection	All contributing sce	enarios	Wear eye protection with side protection (EN166).	
Other operational conditions affecting wor				
Assumes a good basic standard of occupation	nal hygiene is implen	nented.		
2.2 Control of environmental exposure				
Amounts used		I		
Fraction of EU tonnage used in region:		Not acre	Norad to influence the expension on such for this account	
Regional use tonnage (tons/year): Fraction of Regional tonnage used locally: tor	ochroor	INOT CONSIC	dered to influence the exposure as such for this scenario	
Annual site tonnage (tons/year):	is/year	2 - 12500		
Maximum daily site tonnage (kg/day):		Not deterr	ninod	
Environment factors not influenced by rish	k management	Not deteri	IIIIEu.	
Flow rate of receiving surface water (m³/d):	t management	Not define	ed (default = 18,000)	
Local freshwater dilution factor:		10	u (ucrault = 10,000)	
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): Release fraction to wastewater from process (initial release prior		No risk is	anticipated: Atmospheric concentrations are expected to be low.	
to RMM):		100 mg/l		
Release fraction to soil from process (initial release prior to RMM):			anticipated: Deposition is expected to be low.	
Technical onsite conditions and measures	to reduce or limit			
Treat air emission to provide a typical remova	I efficiency of (%):	processes	ed. It is recommended to pass waste gas from manufacturing through bag filters, scrubbers or cyclones.	
Treat onsite wastewater (prior to receiving water discharge) to		The waste	ewater resulting from manufacturing of the substance can be treated by	
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%):			ation to remove the solid parts of the substance. The sedimentation is ent with a reduction efficacy of 99% or more.	
If dispharging to demostic accurate treatment	alont provide the	The wastewater resulting from manufacturing of the substance can be treated by		
	If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%):		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				
Note: Common practices vary across sites the				
Organisational measures to prevent/limit r				
Prevent discharge of undissolved substance t	o or recover from on	site wastewa	ater.	
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 system/treatment plant (m³/d)		Not defined		
Degradation effectiveness (%) Conditions and measures related to external treatment of waste for disposal				
	iai treatment of was			
Type of waste			Liquid and Gas n authorised landfill site or incinerate under approved controlled	
Disposal technique		conditions. It is recommended to pass waste gas from manufacturing processes through bag filters, scrubbers or cyclones.		
Substance release quantities after risk ma	nagement measure		, 	
Release to waste water from process (mg/l)		< 3.87 mg/l		
Maximum allowable site tonnage (MSafe) (kg.	/d):	Not defined		

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3.1 Human exposure prediction

			Inf	nalation
Process category [PROC]	Duration	Local Exhaust Ventilation	inhalation exposure (mg/m³)	Risk characterisation 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.

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

4. Evaluation guidance to downstream user			
For scaling see	are managed to at least equivalent Available hazard data do not supp Further details on scaling and cont industries-libraries.html).	ort the need for a DNEL to be established for other health effects. rol technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-nendations, the "worst case" approach has been taken and only the most stringent	
Exposure assessment	Workers	ECETOC TRA 2010	
instrument/tool/method	Environmental exposure	EUSES	

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Exposure Scenario 3 – Industrial, professional and private use of substance or mixtures containing the substance

1.0 Contributing Scenarios	
Sector of uses SU	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU21 Consumer uses: Private households (= general public = consumers) SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process category [PROC]	PROC2 Use in closed, continuous process with occasional controlled exposure PROC3 Use in closed batch process (synthesis or formulation) PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC7 Industrial spraying PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-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]	ERC1 Manufacture of substances ERC2 Formulation of preparations ERC8a Wide dispersive indoor use of processing aids in open systems ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d Wide dispersive outdoor use of processing aids in open systems ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC10b Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)
Specific Environmental Release Categories SPERC	Not applicable

2.0 Operational conditions and risk management measures				
2.1 Control of worker exposure				
Product characteristics				
Physical form of product	Solid and Liquid			
Concentration of substance in product	Covers concentrations up to 1	5%		
Human factors not influenced by risk man	agement			
Potential exposure area	Not defined			
Frequency and duration of use				
	Use of coatings and paints con soda ash flux-calcined		4 – 8 hours	
Exposure duration	Use of kieselguhr soda ash flu filtering water	x calcined for	1 hour/days	
	Use of cleaners containing kieselguhr soda-ash flux calcined		Professional: 60 min/Use Consumer: 20 min/Days	
	Use of coatings and paints con soda ash flux-calcined	ntaining kieselguhr	225 days per year	
Exposure frequency	Use of kieselguhr soda ash flux calcined for filtering water		Professional: Weekly Consumer: Monthly	
	Use of cleaners containing kieselguhr soda-ash flux calcined		Professional: ≤ 8 Uses per day Consumer: 1 Uses per day	
Other operational conditions affecting wo	rker exposure			
Area of use	All contributing scenarios Indoor			
	Professional: Use of	Room volume	1 m³	
	coatings and paints	Ventilation rate	0.6 / 1 hour(s)	
Characteristics of the surroundings	containing kieselguhr soda ash flux-calcined	Release area	200 cm ²	
	Professional use of hand	Room volume	2.5 m³	
	cleaners	Ventilation rate	2 / 1 hour(s)	

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			Release area 5 m ²	
	All other uses		Not defined	
General measures applicable to all activitie				
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	опетининго окре	, , , , , , , , , , , , , , , , , , ,		
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 reco	ommended.		
Risk management measures related to hum	an health			
Respiratory protection	All contributing sce	enarios	Wear respiratory protection.	
Hand and/or Skin protection	All contributing sce	enarios	Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.	
Eye Protection	All contributing sce	enarios	Wear eye protection with side protection (EN166).	
Other operational conditions affecting work				
Assumes a good basic standard of occupation		nented.		
2.2 Control of environmental exposure	, , , , , , , , , , , , , , , , , , ,			
Amounts used				
Tonnage in EU per year		120, tonne	25	
Fraction of EU tonnage used in region:		10 %		
Regional use tonnage (tons/year):		12 tonnes		
Fraction of Regional tonnage used locally:		Not define	d	
Annual site tonnage (tons/year):		Not defined		
Maximum daily site tonnage (kg/day):		Not define		
Environment factors not influenced by risk	management	140t deline	u	
Flow rate of receiving surface water (m³/d):	management	2000		
Local freshwater dilution factor:		10		
Local marine water dilution factor:		100		
Operational conditions		100		
Emission days (days/year):		260		
Release fraction to air from process (initial rele	ase prior to	0		
RMM): Release fraction to wastewater from process (initial release prior				
to RMM): Release fraction to soil from process (initial release prior to		0.1		
RMM):		displaying air amissions and releases to sail		
Technical onsite conditions and measures				
Treat air emission to provide a typical removal		Not define		
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. No wastewater treatment required.				
Organisational measures to prevent/limit re				
Vent waste air only via suitable separators or scrubbers. 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				
Size of municipal sewage system/treatment plant (m³/d)		Not defined		
Degradation effectiveness (%)		Not defined		
Conditions and measures related to external treatment of waste for				
Type of waste Solid and Liquid				
Disposal technique		Bury on ar conditions	n authorised landfill site or incinerate under approved controlled .	

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	Discharge cleaning water into sewer. Do not discharge cleaning water into small water bodies.	
Substance release quantities after risk management measures		
Release to waste water from process (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 exposure prediction		
Exposure assessment (method/calculation model) ECETOC TRA 2010		
Risk characterisation ratio		

						Inhalation
Туре	Content	Local Exhaust Ventilation	Duration	Process category [PROC]	inhalation exposure (mg/m³)	Risk characterisation ratio (RCR)
Industrial	10%	NO	6	PROC7	0.325	0.903
Professional	95%	NO	6	PROC11	0.325	0.903

Consumer use	Long Term inhalation exposure (mg/m³)	Short term inhalation exposure (mg/m³)	Risk characterisation ratio (RCR)
Use of high-solid paints	0.000122		0.0015
Use of water-based paints	0.000186		0.0023
Use of solvent-based paints	0.000864		0.011
Use of water-based wall paints	0.00044		0.0055
Spray painting (trigger cans)	ı	37.5	l
Spray painting (pneumatic		0.676	
sprayer)	-	0.070	-
Filtration material	1	0.14	1
Cleaning products	0.00002		0.00025

3.2 Environmental exposure prediction			
Exposure assessment (method/calculation model)	EUSES		
Risk characterisation ratio			
Waste water treatment	C $AMOUNT_{STP}$		
	$C_{STP} = \frac{AMOUNT_{STP}}{DAYS \cdot INHAB \cdot WASTEW_{inhab}}$		
	$AMOUNT_{STP}$ Amount of kieselguhr soda ash flux-calcined released to municipal STPs in the EU per year (1.2E13 mg/Year(s),		
	DAYS Number of release days (365 Days//Year(s)),		
	INHAB Number of inhabitants in EU (500 million inhabitants)		
	WASTEW _{inhab} Wastewater per inhabitant (200 L/day)		
	$C_{\it STP}$ Concentration of kieselguhr soda ash flux-calcined in municipal STP (mg/l).		
	Estimated STP Concentration (g/L):		
	$C_{STP} = \frac{1.2E13}{365 \cdot 500000000 \cdot 200} = 0.329 \frac{mg}{L}$		
Aquatic Compartment (Pelagic)	Surface Water: 0.333 mg/l		
freshwater sediment/marine sediment	marine water: 0.00033 mg/l No risk is anticipated: Kieselguhr is naturally occurring and is considered a natural part of ecosystems.		
Soil	No risk is anticipated: Kieselguhr is naturally occurring and is considered a natural part of ecosystems.		
Atmospheric Compartment	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 / Seconda Poisoning	The substance has a low solubility in water and thus is essentially unavailable to organisms.		

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4. Evaluation guidance to o	downstream user	
For scaling see	Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Available hazard data do not support the need for a DNEL to be established for other health effects. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). In accordance with ECHAs recommendations, the "worst case" approach has been taken and only the most stringent RMMs recommended for each route of exposure have been taken.	
Exposure assessment	Workers	ECETOC TRA 2010 / RIVM 2008
instrument/tool/method	Consumer	RIVM 2008
	Environmental exposure	EUSES

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ACCORDING TO EC-REGULATIONS 1907/2006

(REACH), 1272/2008 (CLP) & 2020/878

Diatomaceous Earth Flux-Calcined, Kieselguhr Flux-Calcined Celatom® FW-6, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, SP, AW-12, AW-14, AW-18, AW-20

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	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	spiratory protection No specific measures identified.				
Hand/Skin protection	No specific measures identified.				
Eye Protection	tion 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

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J. I	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 health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC

3.2 Environmental exposure prediction

Exposure assessment (method/calculation model)	EUSES
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/m³ (EUSES 2.1.2)	< 0.01
Man via environment - Oral	5.67E-4 mg/kg bw/day (EUSES 2.1.2)	< 0.01
Man via environment - Combined	-	< 0.01

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.

EUSES v. 2.1.2 For scaling see

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.