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

2020/878

Revision date. 26.09.2022 Version 5.1 Printing date: 05.04.2023

Poliresin®

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

1.1 Product identifier

Commercial product name: Poliresin

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:

1 Manufacture of kieselguhr soda ash flux 10

calcined

2 Use as filter aid in industrial settings 13

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

4 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: SILADENT Dr. Böhme & Schöps GmbH

Street / mailbox: Im Klei 26

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

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

1.4 Emergency telephone number

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

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)

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

generated. Prolonged and/or massive inhalation of fine fraction

crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are

cough and breathlessness.

Occupational exposure to fine fraction crystalline silica dust

should be monitored and controlled.

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

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

Contains: Diatomaceous Earth, Flux-Calcined (Kieselguhr)

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

Hazard Pictogram(s):

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

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.

Rinse mouth. Give plenty of water to drink. Get medical Ingestion:

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

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

Control parameters 8.1

Occupational Exposure limits 8.1.1

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



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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 ³	-
Consumer - Long Term - Systemic effects	18.7 mg/kg bw/dav	0.05 mg/m ³	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure adequate ventilation. Atmospheric levels should be

controlled in compliance with the occupational expose limit.

Avoid dust generation.

8.2.2 Individual protection measures, such as personal protective equipment

(PPE):

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

and eyes. Do not breathe dust.

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

Skin protection: 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: Atmospheric levels should be controlled in compliance with

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

least 90%.

Thermal hazards: Not applicable.

8.2.3 Environmental Exposure Control Avoid wind dispersal.

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: $2.3 \text{ g/cm}^3 (H_2O = 1)$

Solubility(ies): <1% Water

Soluble in: Hydrofluoric Acid

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

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 Possibility of hazardous reactions: Stable under normal conditions.

Conditions to Avoid: 10.4 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.

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

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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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).
SECTION	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.
SECTION	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.
SECTION	ON 14: Transport information	
		ons "Recommendations on the Transport of Dangerous
		ADR/RID / IMDG / ICAO/IATA
14.1	UN number:	Not applicable.
14.2	UN proper shipping name:	Not applicable.
14.3	Transport hazard class:	Not applicable.
14.4	Packaging group	Not applicable.
14.5	Environmental hazards	Not classified as Marine Pollutant.
14.6	Special precautions for users	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Diatomaceous Earth, no special measures are required.



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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 chemical safety

assessment has been carried out.

SECTION 16: Other information

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

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

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

IARS: International Agency for Research on Cancer

Size-Weighted Fine Fraction SWeRF:

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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

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

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

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

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

Contributing Scenarios

PROC 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

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

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



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standard of general ventilation. Drain down systems and clear transfer lines prior to breaking containment. Drain down and flush equipment where possible 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						
20°C above ambient temperature, unless stated differently. Do not breathe dust. Avoid dust generation. Clear spills 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 goo 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 accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions. Tachnical conditions of use PROC4, PROC5, PROC8a, PROC9, PROC15, PROC9, PROC19, PROC2, PROC3. Use in closed systems. Local exhaust ventilation is required. PROC1, PROC2, PROC3. Use in closed systems. Local exhaust ventilation is required. Half-face mask (DIN En 140), Filter type P2/P3 - efficiency of at least 90%. PROC9, PROC3, No special measures are required. Half-face mask (DIN En 140), Filter type P2/P3 - efficiency of at least 90%. PROC9, PROC3, No special measures are required. Half-face mask (DIN En 140), Filter type P2/P3 - efficiency of at least 90%. Wear impervious gloves (EN374), Wear suitable coveralls to prevent exposure to the skin. Eye Protection All contributing scenarios Wear eye protection (En 166). Other operational conditions affecting worker exposure Amounts used Fraction of EU tonnage used in region: Not considered to influence the exposure as such for this scenario locally; tons/year Annual site tonnage (tons/year): Not defined (default = 18,000) Mear impervious protection of the process (initial release prior to RMM): Not defined (default = 1						
Clear spills immediately. After contact with skin, wash immediately with plenty of: Water, Provide basic employee training to prevent / minimize exposures. Organisational measures All contributing scenarios Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and clear transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; Ensure suitable personal protective equipment is available; Clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions. Technical conditions of use PROC4, PROC5, PROC8, PROC9, PROC9						
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 ago 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, PROC9, PROC15, PROC19, PROC2, PROC3 Local exhaust ventilation is required. PROC4, PROC9,						
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 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, PROC9, PROC15, PROC9 Local exhaust ventilation is required. Local exhaust ventilation is required. Local exhaust ventilation is required. PROC1, PROC2, PROC3 Use in closed systems. Local exhaust ventilation is required. PROC4, PROC5, PROC9 Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90% PROC2, PROC3 No special measures are required. Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90% PROC2, PROC3 No special measures are required. Wear impervious gloves (EN374), Wear suitable coveralls to prevent exposure to the skin. Eye Protection All contributing scenarios Wear impervious gloves (EN374), Wear suitable coveralls to prevent exposure to the skin. Eye Protection of EU tonnage used in region: Regional use tonnage (fons/year): Regional use tonnage (fons/year): Maximum daily site tonnage used in region: Regional use tonnage (fons/year): Maximum daily site tonnage used in region: Mor of Regional tonnage used in region: Not considered to influence						
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PROC4, PROC5, PROC8a, PROC9, PROC15, PROC19 PROC1, PROC2, PROC3		and impl	ement corrective actions.	•		
PROC8b, PROC9, PROC15, PROC19 PROC1, PROC2, PROC3 Risk management measures related to human health Respiratory protection PROC4, PROC8b, PROC9 PROC2, PROC3 Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90% PROC2, PROC3 No special measures are required. Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90% PROC2, PROC3 No special measures are required. Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90% PROC2, PROC3 No special measures are required. Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin. Eye Protection All contributing scenarios Wear eve protection with side protection (EN166). Other operational conditions affecting worker exposure Assumes a good basic standard of occupational hygiene is implemented. 2.2 Control of environmental exposure Amounts used Fraction of EU tonnage used in region: Regional use tonnage (tons/year): Not considered to influence the exposure as such for this scenario Not considered to influence the exposure as such for this scenario Scenario Not defined (default = 18,000) (m³/d): Local freshwater dilution factor: Local marine water dilution factor: Local marine water dilution factor: 10 Local marine water dilution factor: Not defined Norisk is anticipated: Atmospheric concentrations are expected to be low. Release fraction to air from process (initial release prior to RMM): Release fraction to soil from process (initial release prior to RMM): Release fraction to soil from process (initial release prior to RMM): No risk is anticipated: Deposition is expected to be low.	Technical conditions of use					
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	Release fraction to soil from process		No risk is anticipated: D	eposition is expected to be low.		



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Technical onsite conditions and meas releases to soil	sures to reduce or limit discharges, air emissions and	
Treat air emission to provide a typical removal efficiency of (%):	Not defined. It is recommended to pass waste gas from manufacturing processes through bag filters, scrubbers or cyclones.	
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%):	The wastewater resulting from manufacturing of the substance can be treated by sedimentation to remove the solid parts of the substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.	
If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%):	The wastewater resulting from manufacturing of the substance can be treated by sedimentation to remove the solid parts of the substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.	
Treat soil emission to provide a typical removal efficiency of (%)	Not defined.	
	es thus conservative process release estimates used.	
Organisational measures to prevent/limit		
	nce to or recover from onsite wastewater.	
Do not apply industrial sludge to natural		
Sludge should be incinerated, contained		
Conditions and measures related to mun		
Size of municipal sewage system/treatment plant (m³/d)	Not defined	
Degradation effectiveness (%)	Not defined	
Conditions and measures related to exte	rnal treatment of waste for disposal	
Type of waste	Solid and Liquid and Gas	
Disposal technique	Bury on an authorised landfill site or incinerate under approved controlled conditions. It is recommended to pass waste gas from manufacturing processes through bag filters, scrubbers or cyclones.	
Substance release quantities after risk 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 estimat 3.1 Human exposure		ice to its source		
Exposure assessment (method/calculation model)		ECETOC TRA 2010		
Process category [PROC]	Duration	Local Exhaust Ventilation	Inhalation exposure (mg/m³)	Risk characterization ratio (RCR)
PROC1	4 – 8	None	0.01	0.028
PROC2	4 – 8	90%	0.1	0.278
PROC3	4 – 8	90%	0.1	0.278
PROC4	<u><</u> 1	95%	0.25	0.694
PROC5	<u><</u> 1	95%	0.25	0.694
PROC8a	<u><</u> 1	95%	0.25	0.694
PROC8b	< 1	95%	0.25	0.694
PROC9	<u><</u> 1	95%	0.2	0.556
PROC15	4 – 8	95%	0.25	0.694
PROC19	< 1	95%	0.25	0.694



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4. Evaluation guidance to downstream user

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

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

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 reco	mmendations, the "worst case"	
		approach has been taken and o		
		recommended for each route of		
Exposure assessment		Workers	ECETOC TRA 2010	
instrument/tool/method		Environmental exposure	EUSES	
Exposure Scenario 2 – Use as	filter aid	d in industrial settings		
1.0 Contributing Scenarios	1			
Sector of uses SU		dustrial uses: Uses of substances		
		al sites SU4 Manufacture of food		
	SU6a Manufacture of wood and wood products			
		Manufacture of pulp, paper and pa		
		anufacture of bulk, large scale ch	emicals (including petroleum	
	product			
	SU9 Manufacture of fine chemicals			
	SU15 Manufacture of fabricated metal products, except machinery and			
	equipment			
Durance antonio (DDCC)	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)		(aunthosis) where enperturity	
	PROC4 Use in batch and other process (synthesis) where opportunit for exposure arises		(Symmesis) where opportunity	
	PROC5 Mixing or blending in batch processes for formulation of			
	preparations and articles (multistage and/or significant contact)			
	preparations and articles (multistage and/or significant contact)			



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Chemical product category [PC]	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 PC0 Other Filtration material PC2 Adsorbents
Chemical product dategory [i C]	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	white powder			
Concentration of substance in product	White/Beige Powder Covers co	ncentrations 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 ³		
	Ventilation rate	0.6 / 1 hour(s)		

General measures applicable to all activities

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

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;	



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		consider the need for health surveillance; identify and		
	implement corrective actions.			
Technical conditions of use				
PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15, PROC19	Use with local exhaust ventilat	ion or breathing protection.		
PROC2, PROC3	Use in closed systems.			
Risk management measures related to				
Respiratory protection	PROC4, PROC5, PROC8a,	Wear respiratory protection.		
respiratory protession	PROC8b, PROC9, PROC15, PROC19	Vious reophatory proteotion		
	PROC2, PROC3	No special measures are required.		
Hand and/or Skin protection	All contributing scenarios	Wear impervious gloves (EN374). Wear suitable coveralls to prevent exposure to the skin.		
Eye Protection	All contributing scenarios	Wear eye protection with side protection (EN166).		
Other operational conditions affecting wo				
Assumes a good basic standard of occu				
2.2 Control of environmental exposur				
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	1.00			
Emission days (days/year):	Not defined			
Release fraction to air from process	No risk is anticipated: Atmospheric concentrations are expected			
(initial release prior to RMM):	to be low.	iene 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):		- 1		
Technical onsite conditions and measure	sures to reduce or limit discha	rges, air emissions and		
releases to soil		3 ,		
Treat air emission to provide a typical removal efficiency of (%):	Not defined. It is recommended to pass waste gas from manufacturing processes through bag filters, scrubbers or cyclones.			
Treat onsite wastewater (prior to	The wastewater resulting from manufacturing of the substance			
receiving water discharge) to provide	can be treated by sedimentation to remove the solid parts of the			
the required removal efficiency of (%):	substance. The sedimentation is very efficient with a reduction efficacy of 99% or more.			
If discharging to domestic sewage treatment plant, provide the required	The wastewater resulting from manufacturing of the substance can be treated by sedimentation to remove the solid parts of the			



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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 (%):	Trot dominod	
	on thus concernative process release estimates used	
, ,	es thus conservative process release estimates used.	
Organisational measures to prevent/li		
Prevent discharge of undissolved substa	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 external treatment of waste for disposal		
Type of waste	Solid and Liquid and Gas	
Disposal technique	Bury on an authorised landfill site or incinerate under approved	
	controlled conditions. It is recommended to pass waste gas	
Substance release quantities ofter risk		
•		
I	< 3.87 mg/l	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Maximum allowable site tonnage	Not defined	
(MSafe) (kg/d):		
• •	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. **Commandement measures** Commandement measures**	

3. Exposure estimation and reference to its source				
3.1 Human exposure	prediction			
Exposure assessment		ECETOC TRA	2010	
(method/calculation mo	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
Dermal exposure is considered to be not relevant. Oral exposure is not expected to occur.				
3.2 Environmental ex	posure predictior			
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			g/l. No effects are	
observed at				
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/m	arine sediment		ipated: Kieselguhr is natura	ally occurring and is
considered a natural part of ecosystems.				



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Soil	No risk is anticipated: Deposition is expected to be low.		
Atmospheric Compartment	No risk is anticipated: Atmospheric concentrations are expected		
	to be low.	-	
Indirect exposure to humans via the	The substance has a low solubi	lity in water and thus is	
environment / Secondary	essentially unavailable to organ	isms.	
Poisoning			
4. Evaluation guidance to downstrean	n user		
For scaling see	Where other Risk Management Measures/Operational		
		ers should ensure that risks are	
	managed to at least equivalent levels.		
	Available hazard data do not support the need for a DNEL to be		
	established for other health effects.		
	Further details on scaling and control technologies are provided		
	in SpERC factsheet (http://cefic.org/en/reach-for- industries-		
	libraries.html).		
	In accordance with ECHAs recommendations, the "worst case"		
	approach has been taken and only the most stringent RMMs		
	recommended for each route of exposure have been taken.		
Exposure assessment	Workers	ECETOC TRA 2010	
instrument/tool/method	Environmental exposure EUSES		

Exposure Scenario 3 – Industrial, p 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 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



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	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 condition		anagement measures	<u> </u>			
2.1 Control of worker exp	posure	<u> </u>				
Product characteristics		0				
Physical form of product		Solid and Liquid				
Concentration of substance		Covers concentration	s up to 15%			
Human factors not influe	enced by risk					
Potential exposure area	_	Not defined				
Frequency and duration of	use	T				
Exposure duration		Use of coatings and p		4 – 8 h	ours	
		containing kieselguhr				
		soda ash flux-calcine				
		Use of kieselguhr soc		1 hour/	days	
		calcined for filtering w		–		
		Use of cleaners conta	aining		sional: 60 min/Use	
		kieselguhr soda-ash		Consur	ner: 20 min/Days	
F		flux calcined		205 days sange		
Exposure frequency		Use of coatings and paints		225 days per year		
		containing kieselguhr soda ash flux-calcined				
		Use of kieselguhr soda ash flux		Drofoco	sional: Weekly	
		calcined for		Consumer: Monthly		
		filtering water		Consumer. Monthly		
		Use of cleaners containing		Profess	Professional: < 8 Uses per	
		kieselguhr soda-ash flux calcined		day Consumer: 1 Uses pe		
				day		
Other operational condit	ions affecting	worker exposure		1		
Area of use		ibuting scenarios	Indoor			
Characteristics of the		onal: Use of coatings	Room volume		1 m³	
surroundings		nts containing	Ventilation rate		0.6 / 1 hour(s)	
· ·	kieselgu		Release area		200 cm ²	
	ash flux	-calcined				
	Profess	Professional use of hand		me	2.5 m ³	
	cleaners	3	Ventilation rate		2 / 1 hour(s)	
			Release area		5 m ²	
All othe		uses Not defined		1		

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



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All contributing scenarios	contained or enclosed s maintained facilities and Drain down systems an containment. Drain dow	posure using measures such as systems, properly designed and d a good standard of general ventilation. d clear transfer lines prior to breaking and flush equipment where possible there there is potential for exposure:
		e informed of the nature of exposure
		ons to minimise exposures; Ensure ctive equipment is available; Clear up
		iste in accordance with regulatory
		effectiveness of control measures;
		ealth surveillance; identify and
	implement corrective ac	
Technical conditions of use	1	
All contributing scenarios	Local exhaust recomme	ended.
Risk management measures related t		
Respiratory protection	All contributing	Wear respiratory protection.
	scenarios	
Hand and/or Skin protection	All contributing	Wear impervious gloves (EN374).
	scenarios	Wear suitable coveralls to prevent
		exposure to the skin.
Eye Protection	All contributing	Wear eye protection with side
	scenarios	protection (EN166).
Other operational conditions affecting		
Assumes a good basic standard of occu		mented.
2.2 Control of environmental exposur	<u>e</u>	
Amounts used	1400 /	
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	Not defined	
locally: Annual site tonnage (tons/year):	Not defined	
Maximum daily site tonnage (kg/day):	Not defined	
Environment factors not influenced by ris		
Flow rate of receiving surface water	2000	
(m³/d):	2000	
Local freshwater dilution factor:	10	
Local marine water dilution factor:	100	
Operational conditions	1	
Emission days (days/year):	260	
Release fraction to air from process	0	
(initial release prior to RMM):		
Release fraction to wastewater from	0.1	
process (initial release prior to RMM):		
Release fraction to soil from process	0	
(initial release prior to RMM):		
Technical onsite conditions and measureleases to soil	sures to reduce or limit	discharges, air emissions and
Treat air emission to provide a typical	Not defined	
removal efficiency of (%):	110t dollinod	
Torrioval cilicional of (70).	1	



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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
wastewater treatment required.	es thus conservative process release estimates used. No
Organisational measures to prevent/li	mit release from site
Vent waste air only via suitable separato	
Prevent discharge of undissolved substa	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 n	nunicipal sewage treatment plant
Size of municipal sewage	Not defined
system/treatment plant (m³/d)	
Degradation effectiveness (%)	Not defined
Conditions and measures related to e	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 ris	
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	ECETOC TRA 2010		
(method/calculation model)			
Risk characterisation ratio			
		Inhalation	

					minaration	
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
Spray painting (trigger cans)	-	37.5	-
Spray painting (pneumatic sprayer)	-	0.676	-
Filtration material	-	0.14	-



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Cleaning products	0.00002	- 0.00025
3.2 Environmental exposure prediction	on	
Exposure assessment		
(method/calculation model)		
Risk characterisation ratio	T	
Waste water treatment	Cstp =	AMOUNT _{STP}
		DAYS · INHAB · WASTEW _{inhab}
	AMOUNTstp	Amount of kieselguhr soda ash flux-
		calcined released to municipal STPs in the
		EU per year (1.2E13 mg/Year(s),
	DAYS	Number of release days (365
		Days//Year(s)),
	INHAB	Number of inhabitants in EU (500 million inhabitants)
	WASTEWinhab	Wastewater per inhabitant (200 L/day)
	CSTP	Concentration of kieselguhr soda ash flux-
		calcined in municipal STP (mg/l).
	Estimated STP C	oncentration (g/L):
	C _{STP} =	1.2E13 = 0.329 mg/L
		365 · 500000000 · 200
Aquatic Compartment (Pelagic)	Surface Water: 0.	.333 mg/l
	marine water: 0.0	0033 mg/l
freshwater sediment/marine sediment		ated: Kieselguhr is naturally occurring and is
		ural part of ecosystems.
Soil		ated: Kieselguhr is naturally occurring and is
		ural part of ecosystems.
Atmospheric Compartment		ated: Deposition is expected to be low.
Secondary Poisoning	-	ated: Atmospheric concentrations are expected
To dispert assessments because a 25 O c	to be low.	and the same and the same and the same
Indirect exposure to humans via the		as a low solubility in water and thus is
environment / Secondary Poisoning	l essentially unava	ilable to organisms.

4. Evaluation guidance to downstrea	m user	
For scaling see	Where other Risk Manageme Conditions are adopted, ther managed to at least equivale Available hazard data do not established for other health of Further details on scaling an in SpERC factsheet (http://celibraries.html). In accordance with ECHAs reapproach has been taken an	n users should ensure that risks are ent 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	and the second s		
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	e REACh Regulation (EC) No 1907/2006, exposure estimation		
and risk characterisation for human healt	h 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 refer	ence	to its source	
3.1 Human exposure prediction			
In accordance to the Article 14 (5b)) of the	e REACh Regulation (EC) No	1907/2006, exposure estimation
and risk characterisation for humar			
products within the scope of Direct	ive 76/	/768/EEC.	
3.2 Environmental exposure pre-	diction	า	
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 ³ (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



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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.		