according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name

: WeylClean® SAS 60

Substance name : Secondary alkane sulphonate, sodium salt (60% active)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Manufacture of soap and detergents, cleaning and polishing mixtures Detergent

1.3 Details of the supplier of the safety data sheet

Company	: WeylChem Performance Products GmbH Industriepark Kalle-Albert Kastelerstr. 45 65203 Wiesbaden Germany
Telephone	: 0611 962 5658
Responsible/issuing person	: artur.kessler@weylchem.com

1.4 Emergency telephone number

Telephone

: +44 (0) 1235 239 670 (24 H)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272	2/2008)
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazaro	l pictograms	:		Ŀ		
Signal	word	:	Danger			
Hazaro	l statements	:	H315 H318 H412	Causes skir Causes seri Harmful to a	n irritation. ious eye da aquatic life y	mage. with long lasting effects.
Precau	tionary statements	:	Preven	tion:		
			P273 P280 P280 P264	Avoid releas Wear eye p Wear protec Wash hands	se to the en rotection/ fa ctive gloves s thoroughl	nvironment. ace protection. 5. y after handling.
			Respo	nse:		
			P305 + with wa sent an POISO	P351 + P33 ter for sever d easy to do N CENTER/o	8 + P310 al minutes. . Continue doctor.	IF IN EYES: Rinse cautiously Remove contact lenses, if pre- rinsing. Immediately call a
			Dispos	al:		
				Dianaaa of (oontonto/ or	optoinar to an approved weate

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: Sulfonic acids, C14-17-sec-alkane, sodium salts

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
Sulfonic acids, C14-17-	97489-15-1	Acute Tox. 4; H302	60
sec-alkane, sodium salts	307-055-2	Skin Irrit. 2; H315	
	01-2119489924-20-0000	Eye Dam. 1; H318	
		Aquatic Chronic 3;	
		H412	

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures					
General advice	:	Take off all contaminated clothing immediately.			
If inhaled	:	If inhaled, remove to fresh air. Get medical advice/ attention.			
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water.			
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
If swallowed	:	Get medical attention immediately.			

4.2 Most important symptoms and effects, both acute and delayed

Risks	:	None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media			
Suitable extinguishing media	:	Water spray jet Foam Carbon dioxide (CO2) Dry powder	
5.2 Special hazards arising from	the	substance or mixture	
Specific hazards during fire- fighting	:	Carbon monoxide	

5.3 Advice for firefighters

Special protective equipment : Self-contained breathing apparatus for firefighters

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Wear suitable protective equipment.
·		For personal protection see section 8.
		For disposal considerations see section

section 13.

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6.2 Environmental precautions

Environmental precautions	:	Do not allow material to contaminate ground water system.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
		Flush with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Handle and open container with care.
Advice on protection against fire and explosion	:	None known.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it be- fore reuse. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage ar- eas and containers	:	Keep only in the original container.
Further information on stor- age conditions	:	Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Do not freeze.
Advice on common storage	:	Keep away from food, drink and animal feedingstuffs.
Other data	:	No data available
7.3 Specific end use(s)		
Specific use(s)	:	For further information, refer to the product technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sulfonic acids, C14- 17-sec-alkane, sodium salts	Workers	Dermal	Acute local effects	2,8 mg/cm2
	Workers	Dermal	Long-term systemic effects	5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	35 mg/m3
	Workers	Dermal	Long-term local ef- fects	2,8 mg/cm2
	General popu- lation	Dermal	Acute local effects	2,8 mg/cm2
	General popu- lation	Dermal	Long-term systemic effects	3,57 mg/kg bw/day
	General popu- lation	Inhalation	Long-term systemic effects	12,4 mg/m3
	General popu- lation	Oral	Long-term systemic effects	7,1 mg/kg bw/day
	General popu- lation	Dermal	Long-term local ef- fects	2,8 mg/cm2

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Sulfonic acids, C14-17-sec-al-	Fresh water	0,04 mg/l
kane, sodium salts		
	salt water	0,004 mg/l
	Water (intermittent release)	0,06 mg/l
	Fresh water sediment	9,4 mg/kg sedi-
		ment dw
	Marine sediment	0,94 mg/kg sedi-
		ment dw
	Soil	9,4 mg/kg soil dw
	Sewage treatment plant	600 mg/l
	Oral	53,3 mg/kg food

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Safety glasses
Hand protection Remarks	:	Long-term exposure Impervious butyl rubber gloves

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> Nitrile rubber Gloves

Protective measures

: Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	yellow
Odour	:	characteristic
рН	:	ca. 7 (20 ℃) Concentration: 5 g/l Method: ISO 4316
pour point	:	not determined
Boiling point/boiling range	:	> 100 °C
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	GLP: no
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	similar to water
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	ca. 1,08 g/cm3 (30 °C) Method: DIN 51757
Solubility(ies) Water solubility	:	ca. 500 g/l soluble (25 ℃)
Solubility in other solvents	:	No data available
Partition coefficient: n-oc- tanol/water	:	Not applicable

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Ignition	temperature	:	Not applicable	
Decom	position temperature	:	> 250 ℃	
Viscosit Visc	y cosity, dynamic	:	ca. 7.000 mPa.s	(20 ℃)
Viso	cosity, kinematic	:	No data available)
Flow tir	ne	:	No data available)
Explosi	ive properties	:	Not explosive	
Oxidizi	ng properties	:	The substance or	r mixture is not classified as oxidizing.
9.2 Other in Surface	formation e tension	:	No data available	9
Metal c	corrosion rate	:	Not corrosive to r	netals
Minimu	im ignition energy	:	No data available)
Particle	e size	:	Not applicable	
Self-igr	nition	:	The substance or	mixture is not classified as pyrophoric.

SECTION 10: Stability and reactivity

10.1 Reactivity		
No decomposition if store	ed and ap	plied as directed.
10.2 Chemical stability		
Stable		
10.3 Possibility of hazardou	s reactio	ns
Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
		Stable
10.4 Conditions to avoid		
Conditions to avoid	:	None known.
10.5 Incompatible materials		
Materials to avoid	:	None.

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10.6 Hazardous decomposition products

Stable under recommended storage conditions. No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	LD50 (Mouse): > 2.000 mg/kg

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Acute oral toxicity	:	LD50 (Rat): > 500 - 2.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	LD50 (Mouse, female): > 2.000 mg/kg Method: Expert judgement GLP: no

Skin corrosion/irritation

Product:

Species: Rabbit Method: OECD Test Guideline 404 Result: irritating

Serious eye damage/eye irritation

Product:

Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes. The toxicological data has been taken from products of similar composition.

Respiratory or skin sensitisation

Product:

Species: Guinea pig Result: negative GLP: no

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Germ c	ell mutagenicity			
Produc Genoto	<u>t:</u> exicity in vitro	:	No data available	
Germ o sessmo	cell mutagenicity- As- ent	:	Animal testing did	not show any mutagenic effects.
Carcino	ogenicity			
Produc No dat	<u>t:</u> a available			
Carcino ment	ogenicity - Assess-	:	No evidence of ca	rcinogenicity in animal studies.
Reprod	uctive toxicity			
Produc	t:			
Effects	on fertility	:	No data available	
Effects ment	on foetal develop-	:	No data available	
Reproc sessmo	ductive toxicity - As- ent	:	No toxicity to repro	oduction
STOT - No d	single exposure lata available			
- STOT No d	repeated exposure lata available			
Repeat	ed dose toxicity			
Produc Specie NOAEI Applica Methoo GLP: n	t: s: Rat _: 200 mg/kg ation Route: oral (feed) d: Other o			
Specie NOAEI Methoo GLP: n	s: Mouse _: 500 mg/kg d: Other o			

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Aspiration toxicity

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	No data available
Toxicity to daphnia and other aquatic invertebrates	:	No data available
Toxicity to algae	:	No data available
Toxicity to fish (Chronic tox- icity)	:	No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	No data available
Toxicity to microorganisms	:	not determined
Components:		
Sulfonic acids, C14-17-sec-al	kar	ne, sodium salts:
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 9,81 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 61 mg/l End point: Growth rate Exposure time: 72 h Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): 600 mg/l

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				Test Type: Growth Method: DIN 3841 GLP: no	n inhibition 2 T.8
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0,85 mg/l Exposure time: 28 End point: Other Species: Oncorhyr Analytical monitori Method: OECD Te GLP: yes	d nchus mykiss (rainbow trout) ing: yes est Guideline 204
	Toxicity aquatic (Chroni	to daphnia and other invertebrates c toxicity)	:	NOEC: 0,36 mg/l Exposure time: 22 End point: Reprod Species: Daphnia Test Type: semi-s Method: OECD Te GLP: yes	d luction rate magna (Water flea) tatic test est Guideline 202
	Toxicity ganism	r to soil dwelling or- s	:	NOEC: 470 mg/kg Exposure time: 56 End point: reprodu Species: Eisenia fo Method: OECD Te GLP:yes	d uction rate etida (earthworms) est Guideline 222
12.2	Persiste	ence and degradabili	ty		
	Product Biodear	<u>::</u> adability	:	Readily biodegrad	able.
	Chemic (COD)	al Oxygen Demand	:	1.510 mg/g	
	Dissolv (DOC)	ed organic carbon	:	322 mg/g	
	Physico ity	o-chemical removabil-	:	No data available	
	<u>Compoi</u>	nents:			

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Biodegradability	: Test Type: aerobic
	Inoculum: activated sludge
	Biodegradation: 78 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301B
	GLP: no
	Readily biodegradable, according to appropriate OECD test.

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			Inoculum: activate Biodegradation: 8 Exposure time: 28 Method: OECD Te Readily biodegrad	ed sludge 39 % 3 d est Guideline 301E lable, according to appropriate OECD test.
			Test Type: aerobic Inoculum: activate Biodegradation: 9 Exposure time: 34 Method: OECD 30 Readily biodegrad	c ed sludge 96,2 % 9d 93A Jable, according to appropriate OECD test.
12.3 Bioaccu	umulative potential			
Product	<u>t:</u>			
Bioaccu	umulation	:	Bioaccumulation is	s unlikely.
Partition tanol/w	n coefficient: n-oc- ater	:	Not applicable	
Compo	nents:			
Sulfonio	c acids, C14-17-sec-a	lka	ne, sodium salts:	
Bioaccu	umulation	:	Due to the distribution in organisms	ition coefficient n-octanol/water, accumula- is not expected.
12.4 Mobility	y in soil			
Product	<u>t:</u>			
Distribu mental	ition among environ- compartments	:	No data available	
12.5 Results	of PBT and vPvB as	ses	sment	
Product	<u>t:</u>			
Assess	ment	:	This mixture conta tent, bioaccumula no substance con cumulating (vPvB)	ains no substance considered to be persis- ting and toxic (PBT) This mixture contains sidered to be very persistent and very bioac-)
12.6 Other a	dverse effects			
Product Addition mation	<u>t:</u> nal ecological infor-	:	Avoid release to the	ne environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Contaminated packaging

: Dispose of contents/ container to an approved waste disposal plant.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Volatile organic compounds	:	Directive 2004/42/EC Remarks: According to the composition, the product contains no VOC components as defined by Directive 2004/42/EC.		
		Directive 1999/13/EC on the limitation of emissions of volatile organic compounds Remarks: According to the composition the product contains no VOC component as defined by Directive 1999/13/EC.		
Other regulations	:	For further information see eSDS.		

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15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

SECTION 16: Other information

Full text of H-Statements

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Eye Dam. :	Serious eye damage
Skin Irrit. :	Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB -Very Persistent and Very Bioaccumulative

Further information

Other information

: Wear suitable protective equipment.



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Title of Exposure Scenario	Main	Sectors	Chemi-	Process cat-	Environ-	Article	Ref.
	User	of end-	cal	egories	mental Re-	catego-	
	Groups	use	product	-	lease Cat-	ries	
			cate-		egories		
			gory				
Manufacture	SU 3			PROC1,	ERC1		1
				PROC14,			
				PROC9			
Formulation	SU 3			PROC5,	ERC2		2
				PROC8b.			
				PROC9			
Milling, grinding and similar	SU 3			PROC5,	ERC2		3
activities				PROC24,			
Antistatic agent				PROC8b.			
Polymer additive				PROC9			
Industrial use	611.2			PROCE	EPC2		4
Washing and cleaning prod-	30.3				LNUZ		4
ucts (including solvent based							
products)				FROCS			
Fabrics, textiles and apparel							
Leather							
Metal working fluids							
Additive	5113			PBOC1	EBC5		5
Emulsion	50.5			PROC7	LINUS		5
Use in polymer production				PROC8b			
Antistatic agent	5113			PROC3	EBC5		6
Manufacture of plastic mate-	50.5			PROC5	LINUS		0
rials				PROCZ			
				PROC13			
Eabrics textiles and apparel	5113			PBOC5	EBC4		7
Leather	50.5			PROC13	21104		1
				1110013			
Metal working fluids	SU 3			PROC5,	ERC4		8
				PROC13			
Washing and cleaning prod-	SU 21		PC35		ERC8a		9
ucts (including solvent based							
products)							
Machine dishwashing prod-							
0015							
Laundry products	SU 21		PC35		ERC8a		10
							-
Use in cleaning agents	SU 21		PC35		ERC8a,		11
					ERC8d		
Cosmetics, personal care	SU 21		PC39		ERC8a		12
products							

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1. Short title of Exposure Scenario: (Ref.: 1) Manufacture Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites Process categories : PROC1: Use in closed process, no likelihood of exposure PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletisation PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) Environmental Release Categories : ERC1: Manufacture of substances Use / Activity : Manufacture

2.1 Contributing scenario controlling environmental exposure for: ERC1: Manufacture of substances

Activity	: Manufacture
Amount used	
Daily amount per site	: 84507 kg/day
Frequency and duration of use	
Continuous exposure Continuous exposure	: 1 per day : 355 per year
Environment factors not influe	nced by risk management
Flow rate	: 4.300.000 m3/d
Other given operational condit	ions affecting environmental exposure
Air Remarks Sewage Remarks Waste Remarks	: 0,031 kg/day : EUSES : 10,99 kg/day : EUSES : 1,27 kg/day : EUSES
Technical conditions and meas	sures / Organizational measures
Air Remarks	 Incineration (Effectiveness (of a measure): > 99 %) Ensure containment of the emission source Continuous process monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

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Flow rate of sewage treatment plant effluent Sludge Treatment		7.800 m3/dNo application of sewage sludge to soil				
Conditions Waste tre Disposal	and measures related eatment methods	I to external treatment of waste for disposal : Incineration yes : (Effectiveness (of a measure): > 999,9 %O)				
2.1 Contrib of substan	2.1 Contributing scenario controlling environmental exposure for: ERC1: Manufacture of substances					
Activity		: Mar	nufacture			
Amount use	ed					
Daily amo	ount per site	: 67309 kg/day				
Frequency a	and duration of use					
Continuo	us exposure	: 1 pe	: 1 per day			
Continuo	us exposure	: 358 per year				
Environmen	t factors not influenc	ed by risk ı	manageme	nt		
Flow rate		: 130	.000.000 m	3/d		
Other given operational condition Air Remarks Sewage Remarks		ns affecting : 0,02 : EUS : 8,75 : EUS	j environm 25 kg/day 3ES 5 kg/day 3ES	ental exposure		
Remarks		: EUS	SES			
Technical co	onditions and measu	res / Organi	izational m	easures		

Air	: Incineration (Effectiveness (of a measure): > 99 %)
Remarks	: Ensure containment of the emission source Continuous pro- cess monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment	: 20.000 m3/d
plant effluent	
Sludge Treatment	: No application of sewage sludge to soil

Conditions and measures related to external treatment of waste for disposal

Waste treatment	:	Incineration yes
Disposal methods	:	(Effectiveness (of a measure): > 999,9 %O)

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2.3 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

Activity	: Manufacture
Product characteristics	
Physical Form (at time of use) Vapour pressure Remarks Physical Form (at time of use) Remarks	 Liquid < 0,001 Pa Elevated temperatures Solid, low dustiness Product packaging Covers use at ambient temperatures.
Frequency and duration of use	
Sampling Remarks	 : < 1 min : Closed system Continuous process with sample collection Short-term exposure
Human factors not influenced by risk	management
Dermal exposure Exposed skin surface assumed Remarks	 Palm of one hand 240 cm² Sampling Equipment maintenance
Other operational conditions affecting	workers exposure
Outdoor / Indoor	: Indoor activities
Remarks	: Closed system

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Use closed dosing, transfer, sampling and application systems including connectors. Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): >= 90 %)

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: Use in closed process, no likelihood of exposure Continuous

Note

Material transfers Indoor

2.4 Contributing scenario controlling worker exposure for: PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletisation

Activity

: Manufacture

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) Vapour pressure Remarks Physical Form (at time of use) Remarks	 Liquid < 0,001 Pa Elevated temperatures Solid, low dustiness Product packaging Covers use at ambient temperatures.
Frequency and duration of use	

process no sampling

Demorile

Remarks

Human factors not influenced by risk management

	5
Dermal exposure	: none
Remarks	: no sampling

Other operational conditions affecting workers exposure

Outdoor / Indoor	: Indoor activities
Remarks	: Closed system

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Use closed dosing, transfer, sampling and application systems including connectors. Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): >= 90 %)

Note

Material transfers Indoor

2.5 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Activity

: Manufacture

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) Vapour pressure Remarks Remarks	 Solid, low dustiness < 0,001 Pa Elevated temperatures Product packaging Covers use at ambient temperatures.
equency and duration of use	

Frequency and duration of use

Exposure duration	:	> 4 h
Remarks	:	Continuous process

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor	:	Indoor activities
Remarks	:	Automated task Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Use closed dosing, transfer, sampling and application systems including connectors. Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure



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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,013
	EUSES, Tier 1 used: no		Fresh water sediment		30 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00126 μg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		2,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00071 mg/kg	< 0,01
Remarks: Only h	ighest exposure le	evels are give	en.			
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,00124 mg/kg bw/day	< 0,01
	EUSES, Tier 1 used: no		Fresh water		0,5 μg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		150 μg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		0,9 μg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only h	ighest exposure le	evels are give	en.			

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EUSES, Tier 1	Human expo-	0,00105	< 0,01
used: no	sure predic-	mg/kg	
	tion (oral in-	bw/day	
	take)		

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,34 mg/kg bw/day	0,07
	ECETOC TRA, Tier 1 used: yes		Inhalation ex- posure	0,14 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,34 mg/kg bw/day	0,07
	ECETOC TRA, Tier 1 used: yes		Inhalation ex- posure	0,14 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,69 mg/kg bw/day	0,14
	measured expo- sure level		Inhalation ex- posure	0,19 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable Not applicable

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1. Short title of Exposure Scenario: (Ref.: 2) Formulation Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites Process categories : PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) 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) Environmental Release Categories : ERC2: Formulation of preparations

Use / Activity : **SU 10:** Formulation

2.1 Contributing scenario controlling environmental exposure for: ERC2: Formulation of preparations

Activity	: Formulation
Amount used	
Daily amount per site	: 9830 kg/day
Frequency and duration of us	e
Continuous exposure Continuous exposure	: 1 per day : 300 per year
Environment factors not influe	enced by risk management
Flow rate	: 4.300.000 m3/d
Other given operational condi Air Remarks Sewage Remarks Waste Remarks	itions affecting environmental exposure : 0,0035 kg/day : EUSES : 10,81 kg/day : EUSES : 1,28 kg/day : EUSES
Technical conditions and mea	sures / Organizational measures
Air Remarks	 Incineration (Effectiveness (of a measure): > 99,9 %) Ensure containment of the emission source Continuous process monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being

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		used	correctly	and operation conditions followed.			
Conditions Flow rate plant efflu	and measures relate of sewage treatment lent	d to municipa : 7.800	al sewage) m3/d	e treatment plant			
Sludge Ti	reatment	: No a	oplication	of sewage sludge to soil			
Conditions Waste tre	and measures relate eatment	d to external : Incine	treatmen eration ye	t of waste for disposal ୨			
Disposal	methods	: (Effe	: (Effectiveness (of a measure): > 999,9 %O)				
2.1 Contrib of preparat	outing scenario con tions	ntrolling env	ironmer	tal exposure for: ERC2: Formulation			
Activity		: Form	ulation				
Amount use	ed						
Daily amo	ount per site	: 7833	kg/day				
Frequency a	and duration of use						
Continuo Continuo	us exposure us exposure	: 1 per : 300 p	day ber year				
Environmer	nt factors not influen	ced by risk m	anageme	ent			
Flow rate		: 130.0	000.000 m	n3/d			
Other given Air Remarks Sewage Remarks Waste Remarks	operational condition	ons affecting : 0,002 : EUSI : 8,62 : EUSI : 1,02 : EUSI	environm 29 kg/day ES kg/day ES kg/day ES	nental exposure			
Technical c	onditions and measu	ires / Organiz	ational n	neasures			
Air Remarks		: Incine : Ensu cess provie are tr checl used	eration (E re contair monitorin de a suita ained to r that the correctly	ffectiveness (of a measure): > 99,9 %) ment of the emission source Continuous pro- g To prevent leaks or spillages from spreading, ble liquid retention system. Ensure operatives ninimise exposures. Supervision in place to risk management measures in place are being and operation conditions followed.			
Conditions and measures related to Flow rate of sewage treatment		d to municipa : 20.00	al sewage 00 m3/d	e treatment plant			
plant efflu Sludge Ti	ient reatment	: No aj	oplication	of sewage sludge to soil			
Conditions	and measures relate	d to external	treatmen	t of waste for disposal			
Waste tre Disposal	eatment methods	: Incine : (Effe	eration ye ectivenes	s s (of a measure): > 999,9 %O)			

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2.3 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

Activity	:	Formulation	
Product characteristics			
Chemical name		Concentration [%]	
		<= 60	
Physical Form (at time of use) Vapour pressure Remarks	:	Liquid < 0,001 Pa Elevated temperatures	
Frequency and duration of use			
Sampling Remarks	:	< 1 min Closed system Continuous process with sample collection Short-term exposure	
Human factors not influenced by risk managementDermal exposure: Palms of both hands (480 cm2)Exposed skin surface assumed: 480 cm²Remarks: Sampling Equipment maintenance			
Other operational conditions affecti Outdoor / Indoor Remarks	Other operational conditions affecting workers exposure Outdoor / Indoor Emarks Closed system		
Technical conditions and measures With Local Exhaust Ventilation (Effectiveness (of a measure): >= & This substance should be handled of lation article 18(4). Site documental risk-based management system sho lifecycle all necessary measures sho exposure. Handle substance within a closed s Use closed dosing, transfer, sampli	30 % unde tion f ould nould syste	%) er strictly controlled conditions as specified in REACH regu- to support safe handling arrangements in accordance with be available at each manufacturing site. During the whole d be undertaken to minimize emissions and any resulting em. and application systems including connectors.	

Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

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Note

Material transfers Indoor

2.4 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Activity : Formulation **Product characteristics** Chemical name Concentration [%] <= 60 Physical Form (at time of use) : Liquid Vapour pressure : < 0,001 Pa Remarks : Elevated temperatures Frequency and duration of use Exposure duration : >4h Remarks : Continuous process Human factors not influenced by risk management Dermal exposure : Palms of both hands (480 cm2) Exposed skin surface assumed : 480 cm² Remarks : Filling Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor activities Remarks : Semi-automated task Remote filling / transfer devices Technical conditions and measures With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 %) This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with

risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Use closed dosing, transfer, sampling and application systems including connectors. Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

2.5 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Activity

: Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use)	: Solid, low dustiness
Vapour pressure	: < 0,001 Pa
Remarks	: Elevated temperatures

Frequency and duration of use

Exposure duration	: >4 h
Remarks	: Continuous process

Human factors not influenced by risk management

ns of both hands (480 cm2)
cm ²
ıg

Other operational conditions affecting workers exposure

Outdoor / Indoor	:	Indoor activities
Remarks	:	Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Use closed dosing, transfer, sampling and application systems including connectors. Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard

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of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,013
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00126 μg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		2,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00071 mg/kg	< 0,01
Remarks: Only h	ighest exposure le	evels are give	en.			
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,00124 mg/kg bw/day	< 0,01
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		150 μg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		0,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00070 mg/kg	< 0,01
Remarks: Only h	ighest exposure le	evels are give	en.			
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,00105 mg/kg bw/day	< 0,01

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Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ECETOC TRA, Tier 1 used: yes		Inhalation ex- posure	0,08 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to I	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation ex- posure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	measured expo- sure level		Inhalation ex- posure	0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable Not applicable

according to Regulation (EC) No. 1907/2006



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1. Short title of Exposure Scenario: (Ref.: 3) **Milling, grinding and similar activities, Anti-**static agent, Polymer additive

Main User Groups	:	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	:	 PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC24: High (mechanical) energy work-up of substances bound in materials and/ or articles 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)
Environmental Release Categories	:	ERC2: Formulation of preparations
Use / Activity	:	SU 10: Formulation

2.1 Contributing scenario controlling environmental exposure for: ERC2: Formulation of preparations

Activity	: Formulation
Amount used	
Daily amount per site Remarks Daily amount per site Remarks	: 250 kg/day : Antistatic agent : 150 kg/day : Polymer additive
Frequency and duration of us	e
Continuous exposure Continuous exposure	: 1 per day : 200 per year
Other given operational cond	itions affecting environmental exposure
Air Remarks Air Remarks	 0,000093 kg/day EUSES Antistatic agent 0,006 kg/day EUSES Polymer additive
Technical conditions and mea	asures / Organizational measures
Air Remarks	 Incineration (Effectiveness (of a measure): > 99,9 %) Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk manage-

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ment measures in place are being used correctly and operation conditions followed.

Conditions and measures related to external treatment of waste for disposal

Waste treatment	: Incineration yes
Waste treatment	: Landfill Not applicable
Waste treatment	: Recycling Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

Activity

: Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 93
Physical Form (at time of use)	: Solid, high dustiness

Vapour pressure	:	< 0,001 Pa
Remarks	:	Covers use at ambient temperatures.

Frequency and duration of use

Exposure duration	:	30 min
Frequency of use	:	4 per day
Frequency of use	:	200 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor	: Indoor activities
Remarks	: Closed system

Technical conditions and measures

With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 %) Use a sampling system designed to control exposure. Process control / change measures Use dedicated equipment. Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance



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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): >= 90 %)

Note

Material transfers Indoor

2.3 Contributing scenario controlling worker exposure for: PROC24: High (mechanical) energy work-up of substances bound in materials and/ or articles

Activity

: Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) : Solid, high dustiness	Vapour pressure Remarks	< 0,001 PaCovers use at ambient temperatures
Physical Form (at time of use) : Solid, high dustiness Vapour pressure : < 0,001 Pa	Remarks	: Covers use at ambient temperatures
Physical Form (at time of use) : Solid, high dustiness	Remarks	: Covers use at ambient temperatures
Physical Form (at time of use) : Solid, high dustiness	Vapour pressure	: < 0.001 Pa
	Physical Form (at time of use)	: Solid, high dustiness

Exposure duration : > 4 h Frequency of use : 4 per day Erequency of use : 200 days/ye

Frequency of use	: 200 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²

Other operational conditions affecting workers exposure

Outdoor / Indoor	: Indoor activities
Remarks	: Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 %) Use a sampling system designed to control exposure. Process control / change measures Use dedicated equipment. Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance



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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): >= 90 %)

Note

Material transfers Indoor

2.4 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Activity

: Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use)	: Solid, high dustiness
Vapour pressure	: < 0,001 Pa
Remarks	: Covers use at ambient temperatures
Remarks	: Covers use at ambient temperature

Frequency and duration of use

Exposure duration	:	15 min
Frequency of use	:	4 per day
Frequency of use	:	200 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²

Other operational conditions affecting workers exposure

Outdoor / Indoor	:	Indoor activities
Remarks	:	Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 %) Use a sampling system designed to control exposure. Process control / change measures Use dedicated equipment. Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard

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of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. disposable one-piece overall without integral hood Respiratory protection complying with EN 143. Mask type: P2 filter

Note

Respiratory protection necessary at: Material transfers Filling/ preparation of equipment from drums or containers. Material transfers Indoor

2.5 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Activity

: Formulation

Product characteristics

Chemical name			Concentration [%]		
			<= 93		
Physical Form (at time of use) Vapour pressure Remarks		olid, hig 0,001 Ι overs ι	gh dustiness ² a Ise at ambient temperatures		
Frequency and duration of use					
Exposure duration Remarks Frequency of use	: > 4 : Co : 20	4 h ontinuc 0 days	ous s/year		
Human factors not influenced by risk	mana	ageme	ent		
Dermal exposure Exposed skin surface assumed Remarks	: Pa : 48 : Fil	alms of 0 cm ² ling	both hands (480 cm2)		
Other operational conditions affecting workers exposure					
Outdoor / Indoor Remarks	: Ind : Se	door ao mi-clo	ctivities sed system		
Technical conditions and measures					
With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 Use a sampling system designed to c Process control / change measures Use dedicated equipment. Filling and transfer	%) control	l expos	sure.		

Organisational measures to prevent /limit releases, dispersion and exposure



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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. disposable one-piece overall without integral hood Respiratory protection complying with EN 143. Mask type: P2 filter

Note

Respiratory protection necessary at: Material transfers Filling/ preparation of equipment from drums or containers. Material transfers Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR		
	EUSES, Tier 1 used: no		Fresh water		0,5 μg/l	0,012		
Remarks: Antistatic agent								
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01		
Remarks: Antistatic agent								
	EUSES, Tier 1 used: no		Soil		0,00137 μg/kg dry weight	< 0,01		
Remarks: Antista	Remarks: Antistatic agent							
			STP			0		
Remarks: Not applicable as there is no release to wastewater. Antistatic agent								
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01		
Remarks: Only highest exposure levels are given. Antistatic agent								
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,0000175 mg/kg bw/day	< 0,01		
according to Regulation (EC) No. 1907/2006



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Remarks:	Antistatic agent				
	EUSES, Tier 1 used: no	Fresh	water	0,5 μg/l	0,012
Remarks: I	Polymer additive			I	
	EUSES, Tier 1 used: no	Fresh sedir	water sinent w	30 μg/kg vet weight	< 0,01
Remarks: I	Polymer additive		i	¥i	
	EUSES, Tier 1 used: no	Sc	il (),000137 μg/kg dry weight	< 0,01
Remarks:	Polymer additive		I		
		ST	P		
Remarks: I Polymer ad	Not applicable as there dditive	is no release to waste	water.		
	EUSES, Tier 1 used: no	Secor	ndary	0,0007 mg/kg	< 0,01
Remarks: 0 Polymer ad	Only highest exposure dditive	levels are given.	i		
	EUSES, Tier 1 used: no	Human sure p tion (o tak	expo- (redic- ral in- e)),000154 mg/kg bw/day	< 0,01
Remarks:	Polymer additive				

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,09 mg/kg bw/day	0,02
	ECETOC TRA, Tier 1 used: yes		Inhalation ex- posure	0,25 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,68 mg/kg bw/day	0,14
	measured expo- sure level		Inhalation ex- posure	0,08 mg/m ³	< 0,01
			Human health (combined for		

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			all exposure routes)		
Remarks: 7	The use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,68 mg/kg bw/day	0,14
	ECETOC TRA, Tier 1 used: yes		Inhalation ex- posure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks:	The use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,68 mg/kg bw/day	0,14
	ECETOC TRA, Tier 1 used: yes		Inhalation ex- posure	0,20 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: 7	The use is assessed to	be safe.			

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

ECHA guidance for downstream users see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 4) Industrial use, Washing and cleaning products (including solvent based products), Fabrics, textiles and apparel, Leather, Metal working fluids

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	 PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) 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)
Environmental Release Categories	ERC2: Formulation of preparations
Use / Activity	SU 10: Formulation

2.1 Contributing scenario controlling environmental exposure for: ERC2: Formulation of preparations

Activity	:	Formulation
Amount used		
Daily amount per site	:	100 kg/day
Frequency and duration of use		
Continuous exposure Continuous exposure	:	1 per day 300 per year
Environment factors not influenced	by	risk management
Flow rate	:	18.000 m3/d
Other given operational conditions a	affe	cting environmental exposure
Air	:	0 kg/day
Sewage	÷	0,01 kg/day
wasie	•	0 kg/day
Technical conditions and measures	/ 0	rganizational measures
Air Remarks	:	Incineration (Effectiveness (of a measure): > 99,9 %) Ensure containment of the emission source Continuous pro- cess monitoring Ensure operatives are trained to minimise ex- posures. Supervision in place to check that the risk manage- ment measures in place are being used correctly and opera- tion conditions followed.

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Conditions Flow rate	and measures relate	ed to mu t :	nicipal sewa 2.000 m3/d	age treatment plant	
Sludge T	reatment	:	No applicati	on of sewage sludge to soil	
Conditions	and measures relate	ed to ext	ernal treatm	ent of waste for disposal	
Waste tre	eatment	:	Incineration	yes	
Waste treatment		:	Landfill Not	applicable	
Waste treatment		:	Recycling N	lot applicable	

2.2 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

Activity

: Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use)	:	Liquid
Vapour pressure	:	< 0,001 Pa
Process Temperature	:	30 ℃

Frequency and duration of use

Exposure duration	: 90 min
Sampling	: < 1 min
Frequency of use	: 10 per day
Remarks	: Batch process
Frequency of use	: 200 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Sampling Equipment maintenance

Other operational conditions affecting workers exposure

Outdoor / Indoor	: Indoor activities
Remarks	: Closed system

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Process control / change measures

Use closed dosing, transfer, sampling and application systems including connectors. Material transfers



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Remote filling / transfer devices Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

2.3 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Activity	:	Formulation
Product characteristics		
Chemical name		Concentration [%]
		<= 60
Physical Form (at time of use)	:	Liquid
Vapour pressure	:	< 0,001 Pa
Process Temperature	:	30 ℃
Frequency and duration of use		
Exposure duration	:	> 4 h
Frequency of use	:	10 per day
Frequency of use	:	200 days/year
Human factors not influenced by risl	(m	nanagement
Dermal exposure	:	Palms of both hands (480 cm2)
Exposed skin surface assumed	:	480 cm ²
Remarks	:	Filling
Other operational conditions affectir	ng v	workers exposure
Outdoor / Indoor	:	Indoor activities
Remarks	:	Automated task Remote filling / transfer devices
Technical conditions and measures		
With Local Exhaust Ventilation (Effectiveness (of a measure): >= 8 This substance should be handled u lation article 18(4). Site documentati	0 % nde	6) er strictly controlled conditions as specified in REACH regu- to support safe handling arrangements in accordance with

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risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure. Process control / change measures Use closed dosing, transfer, sampling and application systems including connectors. Material transfers Remote filling / transfer devices Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

2.4 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Activity

: Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) Vapour pressure Process Temperature	: solid : <0,001 Pa : 30 ℃
Frequency and duration of use	
Exposure duration	: >4 h
Frequency of use	: 10 per day
Frequency of use	: 200 days/year
Human factors not influenced by	risk management
Dermal exposure	: Palms of both hands (48

Dermai exposure	: Paims of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor	:	Indoor activities
Remarks	:	Automated task Remote filling / transfer devices



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Technical conditions and measures

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure. Process control / change measures Use closed dosing, transfer, sampling and application systems including connectors. With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 %)

Material transfers Remote filling / transfer devices Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. Effective dust mask

Note

Material transfers Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	Tier 1 used: no		Fresh water		0,5 μg/l	0,013
Remarks: Only h	ighest exposure le	evels are give	en.			
	Tier 1 used: no		Fresh water		30 µg/kg	< 0,01
			sediment		wet weight	
Remarks: Only h	ighest exposure le	evels are give	en.			
	Tier 1 used: no		Soil		1,67 μg/kg dry weight	< 0,01
Remarks: Only highest exposure levels are given.						
	Tier 1 used: no		STP		0,01 μg/l	< 0,01
Remarks: Only highest exposure levels are given.						

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< 0,01

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	Tier 1 used: no) S	econdary	0,0007

		poisoning	mg/kg		
Remarks: Only h	Remarks: Only highest exposure levels are given.				
-	1			r	
	Tier 1 used: no	Human expo-	0,0000162	< 0,01	
		sure predic-	mg/kg		
		tion (oral in-	bw/dav		
		take)			
Remarks: Only highest exposure levels are given.					
,					

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ART, Tier 2		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation ex- posure	0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to I	be safe.			
	ART, Tier 2		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation ex- posure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to I	be safe.			
	ART, Tier 2		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation ex- posure	0,08 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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ECHA guidance for downstream users see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 5) **Additive, Emulsion, Use in polymer production**

Main User Groups	:	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	:	 PROC1: Use in closed process, no likelihood of exposure PROC7: Industrial spraying 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)
Environmental Release Categories	:	ERC5: Industrial use resulting in inclusion into or onto a matrix
Use / Activity	:	Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC5: Industrial use resulting in inclusion into or onto a matrix

Activity	: Industrial use
Amount used	
	: 10 kg/day
Frequency and duration of us	e
Continuous exposure Continuous exposure	: 1 per day : 300 per year
Other given operational condi	tions affecting environmental exposure
Air Remarks Sewage Remarks Waste Remarks	: 0,001 kg/day : EUSES : 0 kg/day : EUSES : 0 kg/day : EUSES
Technical conditions and mea	sures / Organizational measures
Air Remarks	 with cartridge/filter (Effectiveness (of a measure): > 80 %) Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to external treatment of waste for disposal

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Waste ti	reatment	: Incineration	Not applicable
Waste ti	reatment	: Landfill Not	applicable
Waste ti	reatment	: Recycling N	lot applicable
0 0 Contri	buting according	ontrolling worker of	vnaaura faru DDOC1. Uga in alaa

2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

Activity

: Industrial use

Product characteristics

Chemical name		Concentration [%]
		<= 93
Physical Form (at time of use)	: Liquid	

F	l		- 4
requency	and	auration	of use

Vapour pressure Process Temperature

Remarks	: Continuous process Use in closed process, no likelihood of
	exposure

Human factors not influenced by risk management

Dermal exposure	:	Palms of both hands (480 cm2)
Exposed skin surface assumed	:	480 cm ²
Remarks	:	Use in closed process, no likelihood of exposure

: Indoor activities

: < 0,001 Pa : <= 50 ℃

Other operational conditions affecting workers exposure

Outdoor / Indoor

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Continuous monitoring / inspection of process and technical measures and regular maintenance Transfer via enclosed lines.

Material transfers

Remote filling / transfer devices Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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Conditions and measures related to personal protection, hygiene and health evaluation Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

2.3 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

Activity

Remarks

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature	: <= 50 °C

Frequency and duration of use

: Continuous process Use in closed process, no likelihood of exposure

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Use in closed process, no likelihood of exposure

Remarks	: Us	e in closed	l process,	no likeliho	ood of	expo

Other operational conditions affecting workers exposure

Outdoor / Indoor

: Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Ensure containment of the emission source

Continuous monitoring / inspection of process and technical measures and regular maintenance Transfer via enclosed lines.

Material transfers

Remote filling / transfer devices

Automated task

Handle substance within a closed system.

Ensure containment of the emission source

Organisational measures to prevent /limit releases, dispersion and exposure



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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

2.4 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	< 1

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature	: <= 50 °C

Frequency and duration of use

Exposure duration	: >4h
Remarks	: Continuous process
Frequency of use	: 260 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor	:	Indoor activities
Remarks	:	Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation

(Effectiveness (of a measure): >= 80 %)

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Continuous monitoring / inspection of process and technical measures and regular maintenance

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Transfer via enclosed lines. Material transfers Remote filling / transfer devices Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

2.5 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	< 1

Physical Form (at time of use)	: Solid, low dustiness
Vapour pressure	: < 0,001 Pa
Process Temperature	: <= 50 °C

Frequency and duration of use

Exposure duration	: >4 h
Frequency of use	: 10 per day
Frequency of use	: 220 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²
Remarks	: Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor	: Indoor activities
Remarks	: Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation (Effectiveness (of a measure): >= 80 %)



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This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Continuous monitoring / inspection of process and technical measures and regular maintenance Transfer via enclosed lines.

Material transfers

Remote filling / transfer devices Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 μg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00129 μg/kg dry weight	< 0,01
			STP			0
Remarks: Not applicable as there is no release to wastewater.						
	EUSES, Tier 1		Secondary		0,0007	< 0,01
	used: no		poisoning		mg/kg	
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human expo-		0,0000499 mg/kg	< 0,01

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		sure tion (predic- oral in-	bw/day

take)

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,001 mg/kg bw/day	< 0,01
	ART, Tier 2		Inhalation ex- posure	< 0,001 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.	,		
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,001 mg/kg bw/day	< 0,01
	ART, Tier 2		Inhalation ex- posure	0,001 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation ex- posure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation ex- posure	0,08 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to l	be safe.			

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4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

ECHA guidance for downstream users see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 6) **Antistatic agent, Manufacture of plastic materials**

Main User Groups	:	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	:	 PROC3: Use in closed batch process (synthesis or formulation) PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC7: Industrial spraying PROC13: Treatment of articles by dipping and pouring
Environmental Release Categories	:	ERC5: Industrial use resulting in inclusion into or onto a matrix
Use / Activity	:	Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC5: Industrial use resulting in inclusion into or onto a matrix

Activity	: Industrial use
Amount used	
Daily amount per site	: 66,7 kg/day
Frequency and duration of us	e
Continuous exposure Continuous exposure	: 1 per day : 300 per year
Other given operational condi	tions affecting environmental exposure
Air Remarks Sewage Remarks Waste Remarks	: 0,00667 kg/day : EUSES : 0 kg/day : EUSES : 0 kg/day : EUSES
Technical conditions and mea	sures / Organizational measures
Air Remarks	 with cartridge/filter (Effectiveness (of a measure): > 80 %) Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

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2.2 Contributing scenario control batch process (synthesis or form	ling worker exposure for: PROC3: Use in closed ulation)
Activity	: Industrial use
Product characteristics	
Chemical name	Concentration [%] <= 4
Physical Form (at time of use) Vapour pressure Process Temperature Remarks	 Liquid < 0,001 Pa >= 200 ℃ Elevated temperatures
Frequency and duration of use	
Exposure duration Remarks Frequency of use	: >4 h : Batch process : 220 days/year
Human factors not influenced by ris Dermal exposure Exposed skin surface assumed Remarks	 k management Palms of both hands (480 cm2) 480 cm² Use in closed process, no likelihood of exposure
Other operational conditions affectir Outdoor / Indoor	ng workers exposure : Indoor activities
Technical conditions and measures With Local Exhaust Ventilation Handle substance within a closed sy Process control / change measures Continuous process monitoring	rstem.
Organisational measures to prevent	/limit releases, dispersion and exposure
Ensure operatives are trained to min	imise experience. Provide adequate information instruction

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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Spraying Dipping

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2.3 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

Activity	:	Industrial	use	
Product characteristics				
Chemical name			Concentration [%]]
			<= 4	
Physical Form (at time of use) Vapour pressure Process Temperature Remarks	:	Liquid < 0,001 P >= 200 °C Elevated	Pa C temperatures	
Frequency and duration of use				
Exposure duration Frequency of use Frequency of use	:	> 4 h 2 per day 220 days/	/year	
Human factors not influenced by risk Dermal exposure Exposed skin surface assumed Remarks	• m : : :	Palms of 480 cm ² Use in clo	nt both hands (480 cm2) osed process, no likeliho	ood of exposure
Other operational conditions affectin Outdoor / Indoor	ng v :	workers ex Indoor ac	kposure tivities	
Technical conditions and measures				
With Local Exhaust Ventilation Handle substance within a closed sy Process control / change measures Continuous process monitoring	ste	m.		
Organisational measures to prevent	/lin	nit release	es, dispersion and exp	osure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Spraying Dipping

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2.4 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 4

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature	: >= 200 ℃
Remarks	: Elevated temperatures

Frequency and duration of use

Exposure duration	: >4 h
Frequency of use	: 2 per day
Frequency of use	: 100 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²

Other operational conditions affecting workers exposure : Indoor activities

Outdoor / Indoor

Technical conditions and measures

With Local Exhaust Ventilation Handle substance within a closed system. Process control / change measures Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection. If technical measures not practical: Respiratory protection complying with EN 143. Mask type: P2 filter

Note

Spraying Dipping

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2.5 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 4

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature	: >= 200 °C
Remarks	: Elevated temperatures

Frequency and duration of use

Exposure duration	: >	> 4 h
Frequency of use	: 2	2 per day
Frequency of use	: 1	10 days/year

Human factors not influenced by risk management

Dermal exposure: Palms of both hands (480 cm2)Exposed skin surface assumed: 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation Handle substance within a closed system. Process control / change measures Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

With Local Exhaust Ventilation and/or Effective dust mask Spraying Dipping according to Regulation (EC) No. 1907/2006



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3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 μg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00129 μg/kg dry weight	< 0,01
			STP			0
Remarks: Not ap	plicable as there i	s no release	to wastewater.			
	EUSES, Tier 1		Secondary		0,0007	< 0,01
	used: no		poisoning		mg/kg	-
Remarks: Only h	lighest exposure le	evels are give	en.			
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,000247 mg/kg bw/day	< 0,01

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR	
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,03 mg/kg bw/day	< 0,01	
	ART, Tier 2		Inhalation ex- posure	0,02 mg/m ³	< 0,01	
			Human health (combined for all exposure routes)			
Remarks: The use is assessed to be safe.						
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,03 mg/kg bw/day	< 0,01	
	ART, Tier 2		Inhalation ex- posure	0,02 mg/m ³	< 0,01	
			Human health (combined for all exposure routes)			
Remarks: The use is assessed to be safe.						

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	ECETOC TRA, Tier 1 used: ves		Dermal expo- sure	2,14 mg/kg bw/day	0,43	
	ART, Tier 2		Inhalation ex- posure	0,22 mg/m ³	< 0,01	
			Human health (combined for all exposure routes)			
Remarks:	The use is assessed to	be safe.				
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,69 mg/kg bw/day	0,14	
	ART, Tier 2		Inhalation ex- posure	< 0,01 mg/m ³	< 0,01	
			Human health (combined for all exposure routes)			
Remarks:	The use is assessed to	be safe.		·		

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

ECHA guidance for downstream users see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 7) Fabrics, textiles and apparel, Leather

Main User Groups	:	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	:	 PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC13: Treatment of articles by dipping and pouring
Environmental Release Categories	:	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Use / Activity	:	Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity	: Industrial use
Amount used	
Daily amount per site	: 0,66 kg/day
Frequency and duration of use	
Continuous exposure Continuous exposure	: 1 per day : 300 per year
Environment factors not influence	d by risk management
Flow rate	: 18.000 m3/d
Other given operational conditions Air Remarks Sewage	s affecting environmental exposure : 0 kg/day : EUSES : 0,66 kg/day
Waste Remarks	: 0 kg/day : EUSES
Technical conditions and measure	s / Organizational measures
Remarks	: Ensure containment of the emission source Continuous pro- cess monitoring Ensure operatives are trained to minimise ex- posures. Supervision in place to check that the risk manage- ment measures in place are being used correctly and opera- tion conditions followed.
Conditions and measures related to Flow rate of sewage treatment plant effluent	to municipal sewage treatment plant : 2.000 m3/d

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2.2 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

Activity	:	Industrial	use
Product characteristics			
Chemical name			Concentration [%]
			<= 60
Physical Form (at time of use) Vapour pressure Process Temperature Remarks	: :	Liquid < 0,001 F <= 50 °C Elevated	Pa temperatures
Frequency and duration of use			
Exposure duration Frequency of use Frequency of use	:	< 4 h 4 per day 200 days	/ /year
Human factors not influenced by risk Dermal exposure Exposed skin surface assumed	: ; ;	anageme Palms of 480 cm ²	nt both hands (480 cm2)
Other operational conditions affectin Outdoor / Indoor	g v :	vorkers e Indoor ac	xposure ctivities
Technical conditions and measures			
With Local Exhaust Ventilation Handle substance within a closed sys Process control / change measures Continuous process monitoring	ste	m.	

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing

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2.3 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]		
	<= 5		

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature Remarks	 : <= 50 ℃ : Elevated temperatures

Frequency and duration of use

Exposure duration	:	< 4 h
Frequency of use	:	4 per day
Frequency of use	:	200 days/year

Human factors not influenced by risk management

Dermal exposure: Palms of both hands (480 cm2)Exposed skin surface assumed: 480 cm2

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation Handle substance within a closed system. Process control / change measures Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing

3. Exposure estimation and reference to its source

Environment

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Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,56 μg/l	0,014
	EUSES, Tier 1 used: no		Fresh water sediment		34 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		110 μg/kg dry weight	0,012
	EUSES, Tier 1 used: no		STP		0,66 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00074 mg/kg	< 0,01
Remarks: Only h	lighest exposure le	evels are give	en.			
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,0000679 mg/kg bw/day	< 0,01

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,014
	ART, Tier 2		Inhalation ex- posure	0,09 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to I	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,69 mg/kg bw/day	0,14
	ART, Tier 2		Inhalation ex- posure	< 0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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ECHA guidance for downstream users see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 8) Metal working fluids

Main User Groups	:	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	:	 PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC13: Treatment of articles by dipping and pouring
Environmental Release Categories	:	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Use / Activity	:	Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity	: Industrial use
Amount used	
Daily amount per site	: 0,066 kg/day
Frequency and duration of us	se
Continuous exposure Continuous exposure	: 1 per day : 300 per year
Environment factors not influ	enced by risk management
Flow rate	: 18.000 m3/d
Other given operational cond	itions affecting environmental exposure
Air Remarks Sewage Remarks Waste Remarks	: 0 kg/day : EUSES : < 0,000001 kg/day : EUSES : 0 kg/day : EUSES
Technical conditions and mea	asures / Organizational measures
Air Remarks	 Provide for sufficient ventilation. (Effectiveness (of a measure): > 95 %) Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

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Flow rate plant efflu	of sewage treatment ent	:	2.000 m3/d	
Conditions a	and measures related	l to ext	ernal treatment	t of waste for disposal
Waste tre	atment	:	Incineration yes	S
Waste tre	atment	:	Landfill Not app	olicable
Waste tre	atment	:	Recycling Not	applicable

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]	
	<= 60	

2.2 Contributing scenario controlling worker exposure for: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]	
	<= 60	

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature	: <= 50 °C
Remarks	: Elevated temperatures

Frequency and duration of use

Exposure duration	:	< 4 h
Frequency of use	:	2 per day
Frequency of use	:	100 days/year

Human factors not influenced by risk management

Dermal exposure	: Palms of both hands (480 cm2)
Exposed skin surface assumed	: 480 cm ²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation Handle substance within a closed system.



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Process control / change measures Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing Dipping Wiping

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 5

2.3 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

Activity

: Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 5

Physical Form (at time of use)	: Liquid
Vapour pressure	: < 0,001 Pa
Process Temperature	: <= 50 °C
Remarks	: Elevated temperatures
Frequency and duration of use	
Exposure duration	: <4h

Frequency of use	: 20 per day
Frequency of use	: 100 days/year

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Human factors not influenced by r	isk management
Dermal exposure Exposed skin surface assumed	 Palms of both hands (480 cm2) 480 cm²

Other operational conditions affecting workers exposure Outdoor / Indoor

: Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation Handle substance within a closed system. Process control / change measures Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing Dipping Wiping

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 μg/l	0,012
	EUSES, Tier 1		Fresh water		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00127 μg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		< 0,000001 μg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human expo-		0,0000154 mg/kg	< 0,01

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		sure tion (ta	predic- (oral in- ake)	bw/day

Workers

Contributing Scenario	Exposure Assess- ment Method	Specific conditions	Value	Level of Expo- sure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,07 mg/kg bw/day	0,014
	ART, Tier 2		Inhalation ex- posure	0,09 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The	e use is assessed to	be safe.			
	ECETOC TRA, Tier 1 used: yes		Dermal expo- sure	0,69 mg/kg bw/day	0,14
	ART, Tier 2		Inhalation ex- posure	< 0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

ECHA guidance for downstream users see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 9) Washing and cleaning products (including solvent based products), Machine dishwashing products

Main User Groups	:	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	:	PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	:	ERC8a: Wide dispersive indoor use of processing aids in open systems
Use / Activity	:	Consumer use

2.1 Contributing scenario controlling environmental exposure for: ERC8a: Wide dispersive indoor use of processing aids in open systems

Activity	: Consumer use		
Amount used			
Amount used per capita	: 0,00041 kg/day		
Frequency and duration of use			
Continuous exposure Continuous exposure	: 1 per day : 365 per year		
•••••••			

Other given operational conditions affecting environmental exposure

Conditions and measures related to external treatment of waste for disposal

Remarks : Contain and dispose of waste accord	ling to local	regulations.
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2.2 Contributing scenario controlling consumer exposure for: PC35: Washing and cleaning products (including solvent based products)

Activity	: Consumer use
Product characteristics	
Concentration of the Substance in Mixture/Article	: (undiluted)
Concentration of the Substance in Mixture/Article	: solution

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Chemi	cal name		Concentration [%]		
			<= 29		
			<= 0,2		
Physical Vapour r Process Remarks	Form (at time of use) pressure Temperature s	: Liquid : 0 Pa : ca. 45 °C : Elevated	c temperatures		
Frequency	and duration of use				
Exposur Remarks Frequen Frequen	e duration s cy of use cy of use	: 45 min : Short-ter : 3 uses p : 1.092 pe	 45 min Short-term exposure 3 uses per day 1.092 per year 		
Human factors not influenced by risk managementDermal exposure: Hands and forearms: 1980 cm²Remarks: solution					
Other give Outdoor	n operational condition / Indoor	ons affecting con : Indoor a	sumers exposure		
Oral exp Remarks	oosure s	: 100 % : solution	Worst case assumption		
Conditions	and measures relate	d to protection o	f consumer (e.g. behavioural advice, per-		
Consum	er Measures	: Child res drip free tion of th safe han posal for vant info ing, It is dling und	sistant fastenings (EN 862), Dripless seal ensuring pouring, Break-proof packaging material, Identifica- e substance or mixture and of the supplier, Advice on dling, Information on recycling and methods for dis- the public, General information on ingredients, Rele- rmation on health effects and classification and label- recommended to wear household gloves when han- diluted product.		

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,91 µg/l	0,023
	EUSES, Tier 1 used: no		Fresh water sediment		54 μg/kg wet weight	< 0,01
	EUSES, Tier 1		Soil		684 µg/kg	0,073
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	used: no			dry weight	
	EUSES, Tier 1		STP	4,1 μg/l	< 0,01
	used: no				
	EUSES, Tier 1		Secondary	0,00099	< 0,01
	used: no		poisoning	mg/kg	
Remarks: Only h	ighest exposure le	evels are give	en.		
	EUSES, Tier 1		Human expo-	0,000406	< 0,01
	used: no		sure predic-	mg/kg	
			tion (oral in-	bw/day	
			take)	-	

Consumers

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Value	Level of Ex- posure	RCR
	AISE Reach Exposure As- sessment Con- sumer Tool (REACT), Tier 2		Dermal ex- posure	0,0002 mg/kg bw/day	< 0,01
			Inhalation		
			exposure		
Remarks: Not re	elevant because c	of low vapour pressure.			
	AISE Reach Exposure As- sessment Con- sumer Tool (REACT), Tier 2		Oral expo- sure	0,0001 mg/kg bw/day	< 0,01
			Human health (combined for all ex- posure routes)		
Remarks: The u	use is assessed to	be safe.			

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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1. Short title of Exposure Scenario: (Ref.: 10) Laundry products Main User Groups : SU 21: Consumer uses: Private households (= general public

	= consumers)
Chemical product category	: PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	: ERC8a: Wide dispersive indoor use of processing aids in open systems
Use / Activity	: Consumer use

2.1 Contributing scenario controlling environmental exposure for: ERC8a: Wide dispersive indoor use of processing aids in open systems

Activity	Consumer use
Amount used	
Amount used per capita	0,00007 kg/day
Frequency and duration of use	
Continuous exposure Continuous exposure	1 per day 365 per year
Environment factors not influenced by	risk management
Flow rate	18.000 m3/d
Other given operational conditions affe Air Remarks Sewage Remarks Waste Remarks Conditions and measures related to m Flow rate of sewage treatment plant effluent	ecting environmental exposure 0 kg/day EUSES 0,00007 kg/day EUSES 0 kg/day EUSES unicipal sewage treatment plant 2.000 m3/d
2.2 Contributing scenario controllin cleaning products (including solve	ng consumer exposure for: PC35: Washing and nt based products)
Activity	Consumer use
	Consumer use
Product characteristics	
Chemical name	Concentration [%]

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				<= 15	
Physical For Vapour pres Process Ter Remarks	rm (at time of use) sure nperature	:	Liquid 0 Pa ca. 45 ℃ Elevated	temperatures	
Frequency and	d duration of use				
Exposure du Remarks Frequency c Frequency c	uration of use of use	:	10 min Short-tern 3 uses per 1.092 per	m exposure er day ⁻ year	
Human factors	s not influenced by	risk m	anageme	nt	
Dermal expo Remarks	osure	:	Hands ar 1980 cm ² solution	nd forearms	
Other given op Outdoor / Ind	perational condition	is affec	cting con Indoor ac	sumers exposure tivities	
Conditions and sonal protection	d measures related on and hygiene)	to pro	tection of	f consumer (e.g. k	pehavioural advice, per-

Consumer Measures	: Child resistant fastenings (EN 862), Dripless seal ensuring drip free pouring, Break-proof packaging material, Identifica- tion of the substance or mixture and of the supplier, Advice on safe handling, Information on recycling and methods for dis- posal for the public, General information on ingredients, Rele- vant information on health effects and classification and label- ing, It is recommended to wear household gloves when han- dling undiluted product.
	aling unalialed product.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,57 μg/l	0,014
	EUSES, Tier 1 used: no		Fresh water sediment		34 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		114 μg/kg dry weight	0,012
	EUSES, Tier 1 used: no		STP		0,69 µg/l	< 0,01
	EUSES, Tier 1		Secondary		0,00075	< 0,01

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	used: no	poisoning	mg/kg		
Remarks: Only highest exposure levels are given.					
	EUSES, Tier 1	Human expo-	0,00007	< 0,01	
	used: no	sure predic-	mg/kg		
		tion (oral in-	bw/day		
		take)	-		

Consumers

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Value	Level of Ex- posure	RCR		
	AISE Reach Exposure As- sessment Con- sumer Tool (REACT), Tier 2		Dermal ex- posure	0,0001 mg/kg bw/day	< 0,01		
			Inhalation exposure				
Remarks: Not re	elevant because o	of low vapour pressure.					
	AISE Reach		Oral expo-				
	Exposure As-		sure				
	sessment Con-						
	sumer Tool (REACT)						
Remarks: Oral	exposure is not exposure is no	pected to occur.					
			Human				
			health				
			(combined				
			for all ex-				
			posure				
			routes)				
Remarks: The u	Remarks: The use is assessed to be safe.						

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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1. Short title of Exposure Scenario: (Ref.: 11) Use in cleaning agents Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Chemical product category : PC35: Washing and cleaning products (including solvent based products) Environmental Release Categories : ERC8a: Wide dispersive indoor use of processing aids in open systems Use / Activity : Consumer use

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

Activity :	: Consumer use
Amount used Daily amount for wide dispersive : uses	: 0,00007 kg/day
Frequency and duration of use	
Continuous exposure : Continuous exposure :	: 1 per day : 365 per year
Environment factors not influenced by	y risk management
Flow rate :	: 18.000 m3/d
Other given operational conditions affer Air : Remarks : Sewage : Remarks : Waste : Remarks :	fecting environmental exposure : 0 kg/day : EUSES : 0,00007 kg/day : EUSES : 0 kg/day : EUSES
Conditions and measures related to mu Flow rate of sewage treatment : plant effluent	unicipal sewage treatment plant2.000 m3/d
Conditions and measures related to ex Remarks	xternal treatment of waste for disposal : Contain and dispose of waste according to local regulations

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2.2 Contributing scenario controll cleaning products (including solv	ling consu ent based	mer exposure for: PC35: Washing and products)
Activity	: Consum	ner use
Product characteristics		
Chemical name		Concentration [%]
L Physical Form (at time of use) Vapour pressure Process Temperature Remarks	: Liquid : 0 Pa : ca. 45 ° : Elevated	C d temperatures
Frequency and duration of use		
Exposure duration Remarks Frequency of use Frequency of use	: 10 min : Short-te : 1 uses p : 220 per	erm exposure per day year
Human factors not influenced by risk	manadem	ent
Dermal exposure Remarks	: Hands a : 1980 cn : solution	and forearms n ²
Other given operational conditions a	ffecting co	nsumers exposure
Outdoor / Indoor	: Indoor a	activities
Conditions and measures related to p sonal protection and hygiene)	protection	of consumer (e.g. behavioural advice, per-
Consumer Measures	: Child re drip free tion of th safe han posal fo vant info ing, It is dling un	sistant fastenings (EN 862), Dripless seal ensuring e pouring, Break-proof packaging material, Identifica- ne substance or mixture and of the supplier, Advice on ndling, Information on recycling and methods for dis- r the public, General information on ingredients, Rele- prmation on health effects and classification and label- recommended to wear household gloves when han- diluted product.

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3. Exposure estimation and reference to its source

Environment

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	EUSES, Tier 1 used: no	Fres	h water	0,57 μg/l	0,014
	EUSES, Tier 1 used: no	Fres	h water diment	34 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil	114 μg/kg drv weight	0,012

					ete.g.nt	
	EUSES, Tier 1		Soil		114 µg/kg	0,012
	used: no				dry weight	
	EUSES, Tier 1		STP		0,69 µg/l	< 0,01
	used: no					
	EUSES, Tier 1		Secondary		0,00075	< 0,01
	used: no		poisoning		mg/kg	
Remarks: Only highest exposure levels are given.						
_		-				
	EUSES, Tier 1		Human expo-		0,00007	< 0,01
	used: no		sure predic-		mg/kg	
			tion (oral in-		bw/day	
			take)		-	

Consumers

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Value	Level of Ex- posure	RCR
	AISE Reach Exposure As- sessment Con- sumer Tool (REACT), Tier 2		Dermal ex- posure	0,000063 mg/kg bw/day	< 0,01
	AISE Reach Exposure As- sessment Con- sumer Tool (REACT), Tier 2		Inhalation exposure	0,000012 mg/kg bw/day	< 0,01
Remarks: Spra	y cleaners				
	AISE Reach Exposure As- sessment Con- sumer Tool (REACT)		Oral expo- sure		
Remarks: Oral	exposure is not ex	pected to occur.			
Remarks: The	use is assessed to) be safe.	Human health (combined for all ex- posure routes)		

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4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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1. Short title of Exposure Scenario: (Ref.: 12) Cosmetics, personal care products

Main User Groups	:	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	:	PC39: Cosmetics, personal care products
Environmental Release Categories	:	ERC8a: Wide dispersive indoor use of processing aids in open systems
Use / Activity	:	Consumer use

2.1 Contributing scenario controlling environmental exposure for: ERC8a: Wide dispersive indoor use of processing aids in open systems

Activity	: Consumer use
Amount used	
Daily amount for wide dispersive uses	: 0,00007 kg/day
Frequency and duration of use	
Continuous exposure Continuous exposure	: 1 per day : 365 per year
Environment factors not influenced	by risk management
Flow rate	: 18.000 m3/d
Other given operational conditions a Air Remarks Sewage Remarks Waste Remarks Conditions and measures related to	affecting environmental exposure : 0 kg/day : EUSES : 0,00007 kg/day : EUSES : 0 kg/day : EUSES municipal sewage treatment plant
Flow rate of sewage treatment plant effluent	: 2.000 m3/d
Conditions and measures related to Remarks	external treatment of waste for disposal : Contain and dispose of waste according to local regulations.
2.2 Contributing scenario contro sonal care products	lling consumer exposure for: PC39: Cosmetics, per-

Activity

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Product characteristics

Chemical name		Concentration [%]
		<= 10
Physical Form (at time of use) Vapour pressure	: Liquid : < 0,001 F	Da

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure As- sessment Method	Specific conditions	Compartment	Value	Level of Ex- posure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,57 μg/l	0,014
	EUSES, Tier 1 used: no		Fresh water sediment		34 μg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		114 μg/kg dry weight	0,012
	EUSES, Tier 1 used: no		STP		0,69 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00075 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human expo- sure predic- tion (oral in- take)		0,00007 mg/kg bw/day	< 0,01

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario