

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Incozol EH

Date of last issue: 29.03.2023
Revision Date: 04.01.2024

Version 6.0

Print Date 04.01.2024

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

1.1 Product identifier

Trade name : Incozol EH

UK REACH Registration Number : UK-01-0925394053-1-0001

Substance name : 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

EC-No. : 411-700-4

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

Product use : Intermediate

1.3 Details of the supplier of the safety data sheet

Company name of supplier : Incorez Limited
Miller Street
Preston
Lancashire PR1 1EA

Telephone : +44(0)1772 201964
Telefax : +44(0)1772 255670
E-mail address of person responsible for the SDS : sds@incorez.com

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC)
24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification


2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

|| Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

|| Hazard pictograms : 

|| Signal word : Warning

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Hazard statements	: H317	May cause an allergic skin reaction.
Precautionary statements	: Prevention:	
	P261	Avoid breathing mist or vapours.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves.
	Response:	
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	Disposal:	
	P501	Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

EC-No. : 411-700-4

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	140921-24-0 925-259-5 411-700-4	100	

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Allergic reactions
See Section 11 for more detailed information on health effects and symptoms.
- Risks : sensitising effects
May cause an allergic skin reaction.

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 : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products

Advice on protection against : Normal measures for preventive fire protection.

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fire and explosion

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters *	Basis *
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Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (> 0,1 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

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Respiratory protection : No special measures required.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Colour : light yellow
Odour : mild, sweet

Melting point/range / Freezing point : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : 107 °C
Method: closed cup

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

Viscosity

Viscosity, dynamic : 7.000 mPa.s

Viscosity, kinematic : > 7 mm²/s (40 °C)

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-octanol/water : No data available

Vapour pressure : 0,01 hPa

Density : 1,03 g/cm³ (20 °C)

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Relative vapour density : No data available

Particle characteristics : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Components:

1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

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Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 316 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 193 mg/l

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aquatic invertebrates Exposure time: 48 h
Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 43 mg/l
Exposure time: 72 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental

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protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : 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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)		Not applicable
Volatile organic compounds	:	Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : Environmental Protection Act 1990 & Subsidiary Regulations
Health and Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information

Full text of other abbreviations

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ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

|| Changes as compared to previous version !

GB / EN

Annex to the extended safety data sheet (eSDS)

1. Overview of exposure scenarios (ES)

ES number	ES Code	Scenario name	Use descriptor	Page
1	1	Industrial manufacture of the substance	ERC 1; PROC 1, 2, 3, 4, 8B, 9	14
2	2	Formulation of sealants and adhesives	ERC 2; PROC 2, 3, 4, 5, 8A, 8B, 9	22

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ES number	ES Code	Scenario name	Use descriptor	Page
3	3	Formulation of coatings and fillers	ERC 2; PROC 2, 3, 4, 5, 8A, 8B, 9	31
4	4	Formulation of polymer preparations	ERC 3; PROC 2, 3, 4, 5, 8A, 8B, 9	39
5	5	Industrial application of sealants and adhesives	ERC 5; PROC 5, 7, 8B, 10, 14	48
6	6	Industrial application of coatings and fillers	ERC 5; PROC 5, 7, 8B, 10, 13	56
7	7	Professional application of sealants and adhesives (indoor)	ERC 8C; PROC 5, 8A, 10, 11, 14	64
8	8	Professional application of sealants and adhesives (outdoor)	ERC 8F; PROC 5, 8A, 10, 11, 14	71
9	9	Professional application of coatings and fillers (indoor)	ERC 8C; PROC 5, 8A, 10, 11, 13	78
10	10	Professional application of coatings and fillers (outdoor)	ERC 8F; PROC 5, 8A, 10, 11, 13	84
11	11	Consumer use of sealants and adhesives (indoor)	ERC 8C; PC 1	91
12	12	Consumer use of sealants and adhesives (outdoor)	ERC 8F; PC 1	97
13	13	Consumer use of coatings and fillers (indoor)	ERC 8C; PC 9a, 9b	103
14	14	Consumer use of coatings and fillers (outdoor)	ERC 8F; PC 9a, 9b	107

1.1 General information

Human health hazard

Qualitative risk assessment

The test substance is classified as skin sensitiser, cat. 1B according to Regulation (EC) No 1272/2008 (CLP). A qualitative risk assessment is conducted as no threshold level (DNEL) can be derived from available data. According to guidance on IR&CSA, part E the test substance is allocated to the moderate hazard band.

The likelihood of exposure is estimated to be moderate based on the vapour pressure of approximately 0.001 Pa and the hydrolytical instability of the substance.

Based on the low hazard band and the moderate likelihood of exposure risk is characterised as moderate when using the following risk matrix:

Likelihood of exposure	Substance Hazard Band		
	Low	Moderate	High
High	Moderate Risk	High Risk	High Risk
Moderate	Low Risk	Moderate Risk	High Risk
Low	Low Risk	Low Risk	Moderate Risk

For the moderate risk control band the following occupational conditions (OCs) and risk management measures (RMMs) are required:

Occupational exposure is strictly contained by avoiding the contact with contaminated tools and objects. General ventilation is of good standard and manual phases are minimised. Equipment and work area is cleansed regularly.

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Closed work clothing with long sleeves is worn at all times and only during work and stored separately from street clothing. Contaminated clothing is removed and washed before re-use. Chemical resistant gloves according to Standard EN 374 with a breakthrough time > 480 min and basic training and suitable eye protection are used. At workplace eating, drinking and smoking as well as carrying and storage of food, drink and cigarettes is prohibited. After leaving the workplace, hands, forearms and face are washed thoroughly after handling chemical products, especially before eating, smoking and using the lavatory and at the end of the working period. Personal protective equipment is kept clean, in good condition and ready to use. Compliance of the occupational conditions and risk management measures in place is checked regularly.

If occupational conditions and risk management measures described above are applied, risk of skin sensitisation is adequately controlled.

A quantitative risk assessment is carried out for long-term, systemic effects after dermal exposure.

Reference

- ECHA (2012) How to undertake a qualitative human health assessment and document it in a chemical safety report, Practical Guide 15, ECHA-12-B-49-EN.
- ECHA (2012) Guidance on information requirements and chemical safety assessment, Part E: Risk Characterisation, ECHA-12-G-16-EN.

Ecotoxicological hazard

In the absence of experimentally-derived toxicity data and due to the adsorption properties of the substance the RCRs for Freshwater sediment, Marine water sediment, soil were increased by a factor of 10 as the equilibrium partitioning method was applied for the PNEC derivation.

2.1 Scenario 1: Industrial manufacture of the substance (1)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 1

Free short title	Industrial manufacture of the substance (1)
Systematic title based on use descriptor	ERC 1; PROC 1, 2, 3, 4, 8B, 9
Name of contributing environmental scenario and corresponding ERC	ERC 1 Production of chemicals

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Name(s) of contributing worker scenarios and corresponding PROCs	PROC 1 - Use in closed process, no likelihood of exposure
	PROC 2 - Use in closed, continuous process with occasional controlled exposure
	PROC 3 - Use in closed batch process (synthesis or formulation)
	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities
	PROC 9 - Transfer of chemicals into small containers (dedicated filling line)

2.2 Conditions of use affecting exposure

2.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 1

Operational conditions	
Annual site tonnage	700 to/year
Daily amount used at site	3,181.818 kg/day
Release times per year	220 days/year (<i>justification: Release times per year</i>)
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	5 %
Release fraction to wastewater from process	0 %
Release fraction to soil from process	0.010 %
Fraction tonnage to region	100 %
Fraction used at main source	100 %
STP	no
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Risk management measures	
No direct discharge to marine water compartment (<i>justification: No direct discharge to marine water compartment.</i>)	
Other modified EUSES values	
Concentration in untreated wastewater (Clocal inf.)	0 mg/L (<i>justification: All waste water (aqueous and organic phase) will be sent to disposal companies.</i>)
Fraction released to waste water (Femis.water)	0 % (<i>justification: All waste water will be sent to disposal companies. Local STP will not get any waste.</i>)

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Fraction of emission directed to water by local STP (Fstp.water)	0 - (justification: All waste water will be sent to disposal companies. Local STP will not get any waste.)
Sludge to agricultural soil ? (SludgeToSoil?)	0 (no) (justification: The organic and aqueous phases are blended within certain chemical and physical parameters, prior to being incinerated at a High Temperature Scrubbed Incineration facility. Therefore no sludge will be deposited to agricultural soil.)

2.2.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 1

Name of contributing scenario	PROC 1 Use in closed process, no likelihood of exposure
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

2.2.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 2

Name of contributing scenario	PROC 2 Use in closed, continuous process with occasional controlled exposure
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)

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Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

2.2.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 3

Name of contributing scenario	PROC 3 Use in closed batch process (synthesis or formulation)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

2.2.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 4

Name of contributing scenario	PROC 4 Use in batch and other process (synthesis) where opportunity for exposure arises
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Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

2.2.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8B

Name of contributing scenario	PROC 8b Transfer of chemicals from/to vessels/ large containers at dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	

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Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

2.2.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 9

Name of contributing scenario	PROC 9 Transfer of chemicals into small containers (dedicated filling line)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

2.3 Exposure estimation

2.3.1 Contributing Scenario (1) controlling environmental exposure for ERC1 *Industrial manufacture of the substance*

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

2.3.1.1 Aquatic compartment (including sediment)

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	5.28E-6 mg/L	0.029 mg/L	0.000182	1.75E7
Freshwater sediment	0.02025 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.001821	1.75E6
Marine water	8.00E-7 mg/L	0.0029 mg/L	0.000276	1.15E7
Marine water sediment	0.003069 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.002765	1.15E6

2.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	1.093 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.049251	3,313.467

2.3.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 1

Industrial manufacture of the substance

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.006857 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.000411
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.042504 mg/kg _{bw} /day	-	0.042704

2.3.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 2

Industrial manufacture of the substance

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
Combined routes	0.630756 mg/kg _{bw} /day	-	0.439355

2.3.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 3 *Industrial manufacture of the substance*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.137143 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.008212
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.493613 mg/kg _{bw} /day	-	0.431143

2.3.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 4 *Industrial manufacture of the substance*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

2.3.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8B *Industrial manufacture of the substance*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

2.3.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 9 *Industrial manufacture of the substance*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

3.1 Scenario 2: Formulation of sealants and adhesives (2)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 2

Free short title	Formulation of sealants and adhesives (2)
Systematic title based on use descriptor	ERC 2; PROC 2, 3, 4, 5, 8A, 8B, 9
Name of contributing environmental scenario and corresponding ERC	ERC 2 Formulation of preparations

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Name(s) of contributing worker scenarios and corresponding PROCs	<p>PROC 2 - Use in closed, continuous process with occasional controlled exposure</p> <p>PROC 3 - Use in closed batch process (synthesis or formulation)</p> <p>PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact)</p> <p>PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities</p> <p>PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities</p> <p>PROC 9 - Transfer of chemicals into small containers (dedicated filling line)</p>
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3.2 Conditions of use affecting exposure

3.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 2

Operational conditions	
Annual site tonnage	700 to/year
Daily amount used at site	3,181.818 kg/day
Release times per year	220 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	3.6 %
Release fraction to wastewater from process	0 %
Release fraction to soil from process	0 %
Fraction tonnage to region	100 %
Fraction used at main source	100 %
STP	no
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Risk management measures	
SpERC	UserDefined_FEICA SPERC 2.1c.v2 (User-defined SpERC in accordance with the correspondent SpERC Fact Sheet (Reference: Date February 2013) provided by the association FEICA. For RMM specifications please refer to the correspondent SpERC factsheet.)

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3.2.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 2 (PC 1)

Name of contributing scenario	PROC 2 Use in closed, continuous process with occasional controlled exposure
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

3.2.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 3 (PC 1)

Name of contributing scenario	PROC 3 Use in closed batch process (synthesis or formulation)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors

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Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

3.2.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 4 (PC 1)

Name of contributing scenario	PROC 4 Use in batch and other process (synthesis) where opportunity for exposure arises
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

3.2.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 5 (PC 1)

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible

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Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

3.2.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8A (PC 1)

Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

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3.2.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 8B (PC 1)

Name of contributing scenario	PROC 8b Transfer of chemicals from/to vessels/ large containers at dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

3.2.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 9 (PC 1)

Name of contributing scenario	PROC 9 Transfer of chemicals into small containers (dedicated filling line)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	

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Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

3.3 Exposure estimation

3.3.1 Contributing Scenario (1) controlling environmental exposure for ERC2

Formulation of sealants and adhesives

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

3.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	5.28E-6 mg/L	0.029 mg/L	0.000182	1.75E7
Freshwater sediment	0.02025 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.001821	1.75E6
Marine water	8.00E-7 mg/L	0.0029 mg/L	0.000276	1.15E7
Marine water sediment	0.003069 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.002765	1.15E6

3.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.788427 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.035515	4,598.447

3.3.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 2

Formulation of sealants and adhesives

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total expo-

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sure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.630756 mg/kg _{bw} /day	-	0.439355

3.3.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 3 *Formulation of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.137143 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.008212
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.493613 mg/kg _{bw} /day	-	0.431143

3.3.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 4 *Formulation of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

3.3.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 5 *Formulation of sealants and adhesives*

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The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

3.3.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8A

Formulation of sealants and adhesives

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

3.3.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 8B

Formulation of sealants and adhesives

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

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3.3.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 9 *Formulation of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

4.1 Scenario 3: Formulation of coatings and fillers (3)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 3

Free short title	Formulation of coatings and fillers (3)
Systematic title based on use descriptor	ERC 2; PROC 2, 3, 4, 5, 8A, 8B, 9
Name of contributing environmental scenario and corresponding ERC	ERC 2 Formulation of preparations
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 2 - Use in closed, continuous process with occasional controlled exposure PROC 3 - Use in closed batch process (synthesis or formulation) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities PROC 9 - Transfer of chemicals into small containers (dedicated filling line)

4.2 Conditions of use affecting exposure

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4.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 2

Operational conditions	
Annual site tonnage	700 to/year
Daily amount used at site	3,111.111 kg/day
Release times per year	225 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	0.600 %
Release fraction to wastewater from process	0 %
Release fraction to soil from process	0 %
Fraction tonnage to region	100 %
Fraction used at main source	100 %
STP	no
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Risk management measures	
SpERC	UserDefined_CEPE SPERC 2.1b.v1 (User-defined SpERC in accordance with the correspondent SpERC Fact Sheet (Reference: AJN/ajns0319b, Date: 16 October 2010) provided by the association CEPE. For RMM specifications please refer to the correspondent SpERC factsheet.)

4.2.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 2 (PC 9a)

Name of contributing scenario	PROC 2 Use in closed, continuous process with occasional controlled exposure
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	

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Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

4.2.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 3 (PC 9a)

Name of contributing scenario	PROC 3 Use in closed batch process (synthesis or formulation)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

4.2.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 4 (PC 9a)

Name of contributing scenario	PROC 4 Use in batch and other process (synthesis) where opportunity for exposure arises
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible

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Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

4.2.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 5 (PC 9a)

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

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4.2.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8A (PC 9a)

Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

4.2.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 8B (PC 9a)

Name of contributing scenario	PROC 8b Transfer of chemicals from/to vessels/ large containers at dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	

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Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

4.2.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 9 (PC 9a)

Name of contributing scenario	PROC 9 Transfer of chemicals into small containers (dedicated filling line)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

4.3 Exposure estimation

4.3.1 Contributing Scenario (1) controlling environmental exposure for ERC2

Formulation of coatings and fillers

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk As-

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essment Spreadsheet Model 1.24a.

4.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	5.28E-6 mg/L	0.029 mg/L	0.000182	1.71E7
Freshwater sediment	0.02025 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.001821	1.71E6
Marine water	8.00E-7 mg/L	0.0029 mg/L	0.000276	1.13E7
Marine water sediment	0.003069 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.002765	1.13E6

4.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.134971 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.00608	2.66E4

4.3.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 2 *Formulation of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.630756 mg/kg _{bw} /day	-	0.439355

4.3.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 3 *Formulation of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.137143 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.008212
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.493613 mg/kg _{bw} /day	-	0.431143

4.3.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 4 *Formulation of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

4.3.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 5 *Formulation of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

4.3.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8A *Formulation of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

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The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

4.3.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 8B

Formulation of coatings and fillers

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

4.3.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 9

Formulation of coatings and fillers

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

5.1 Scenario 4: Formulation of polymer preparations (4)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenari-

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os are described in the respective subchapters.

Description of ES 4

Free short title	Formulation of polymer preparations (4)
Systematic title based on use descriptor	ERC 3; PROC 2, 3, 4, 5, 8A, 8B, 9
Name of contributing environmental scenario and corresponding ERC	ERC 3 Formulation in articles
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 2 - Use in closed, continuous process with occasional controlled exposure PROC 3 - Use in closed batch process (synthesis or formulation) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities PROC 9 - Transfer of chemicals into small containers (dedicated filling line)

5.2 Conditions of use affecting exposure

5.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 3

Operational conditions	
Annual site tonnage	700 to/year
Daily amount used at site	3,181.818 kg/day
Release times per year	220 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	3.6 %
Release fraction to wastewater from process	0 %
Release fraction to soil from process	0 %
Fraction tonnage to region	100 %
Fraction used at main source	100 %
STP	no

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River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Risk management measures	
SpERC	UserDefined_CEPE SPERC 2.1b.v1_analogue (User-defined SpERC with release fractions in analogy to the formulation SpERC provided by CEPE (CEPE SPERC 2.1b.v1 (Reference: AJN/ajns0319b, Date: 16 October 2010)) and FEICA (FEICA SPERC 2.1c.v2 (Reference: Reference Date February 2013)). For details on these SpERCs and the appropriate risk management measures (RMMs) please refer to the corresponding SpERC factsheets published by the associations CEPE and FEICA.)

5.2.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 2 (PC 32)

Name of contributing scenario	PROC 2 Use in closed, continuous process with occasional controlled exposure
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.2.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 3 (PC 32)

Name of contributing scenario	PROC 3 Use in closed batch process (synthesis or formulation)
Product characteristics	
Physical state	liquid

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Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.2.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 4 (PC 32)

Name of contributing scenario	PROC 4 Use in batch and other process (synthesis) where opportunity for exposure arises
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	

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Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.2.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 5 (PC 32)

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.2.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8A (PC 32)

Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	

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Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.2.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 8B (PC 32)

Name of contributing scenario	PROC 8b Transfer of chemicals from/to vessels/ large containers at dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.2.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 9 (PC 32)

Name of contributing scenario	PROC 9 Transfer of chemicals into small containers (dedicated filling line)
Product characteristics	

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Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

5.3 Exposure estimation

5.3.1 Contributing Scenario (1) controlling environmental exposure for ERC3
Formulation of polymer preparations

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

5.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	5.28E-6 mg/L	0.029 mg/L	0.000182	1.75E7
Freshwater sediment	0.02025 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.001821	1.75E6
Marine water	8.00E-7 mg/L	0.0029 mg/L	0.000276	1.15E7
Marine water sediment	0.003069 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.002765	1.15E6

5.3.1.2 Terrestrial compartment

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.788427 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.035515	4,598.447

5.3.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 2 *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.630756 mg/kg _{bw} /day	-	0.439355

5.3.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 3 *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.137143 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.008212
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	0.493613 mg/kg _{bw} /day	-	0.431143

5.3.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 4 *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

5.3.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 5 *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

5.3.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 8A *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

5.3.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 8B *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

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The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	2.743 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.164243
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	3.099 mg/kg _{bw} /day	-	0.587174

5.3.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 9 *Formulation of polymer preparations*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.371 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.082121
inhalation, longterm systemic	2.495 mg/m ³	5.9 mg/m ³	0.422931
Combined routes	1.728 mg/kg _{bw} /day	-	0.505052

6.1 Scenario 5: Industrial application of sealants and adhesives (5)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 5

Free short title	Industrial application of sealants and adhesives (5)
Systematic title based on use descriptor	ERC 5; PROC 5, 7, 8B, 10, 14
Name of contributing environmental scenario and corresponding ERC	ERC 5 Industrial use resulting in inclusion into or onto a matrix

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Name(s) of contributing worker scenarios and corresponding PROCs	PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 7 - Industrial spraying PROC 7 - Industrial spraying PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities PROC 10 - Roller application or brushing PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation
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6.2 Conditions of use affecting exposure

6.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 5

Operational conditions	
Annual site tonnage	700 to/year
Daily amount used at site	3,181.818 kg/day
Release times per year	220 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	1.7 %
Release fraction to wastewater from process	0 %
Release fraction to soil from process	0 %
Fraction tonnage to region	100 %
Fraction used at main source	100 %
STP	no
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Risk management measures	
SpERC	UserDefined_FEICA SPERC 5.1b.v2 (User-defined SpERC in accordance with the correspondent SpERC Fact Sheet (Reference: Date February 2013) provided by the association FEICA. For RMM specifications please refer to the correspondent SpERC factsheet.)

6.2.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 5

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
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Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

6.2.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 7

Name of contributing scenario	PROC 7 Industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	180 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 180 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial

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Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	yes (inhalation 95 %)
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

6.2.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 7

Name of contributing scenario	PROC 7 Industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	180 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 180 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

6.2.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 8B

Name of contributing scenario	PROC 8b Transfer of chemicals from/to vessels/ large containers at dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible

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Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

6.2.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 10

Name of contributing scenario	PROC 10 Roller application or brushing
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

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Use of external/measured value inhalation	Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I.
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6.2.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 14

Name of contributing scenario	PROC 14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

6.3 Exposure estimation

6.3.1 Contributing Scenario (1) controlling environmental exposure for ERC5 *Industrial application of sealants and adhesives*

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

6.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	5.28E-6 mg/L	0.029 mg/L	0.000182	1.75E7
Freshwater sediment	0.02025 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.001821	1.75E6
Marine water	8.00E-7 mg/L	0.0029 mg/L	0.000276	1.15E7
Marine water sediment	0.003069 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.002765	1.15E6

6.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.374571 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.016873	9,707.658

6.3.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 5

Industrial application of sealants and adhesives

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.309933 mg/kg _{bw} /day	-	0.058717

6.3.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 7

Industrial application of sealants and adhesives

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.321429 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.019247
inhalation, longterm systemic	4.679 mg/m ³	5.9 mg/m ³	0.792995

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
Combined routes	0.98981 mg/kg _{bw} /day	-	0.812242

6.3.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 7 *Industrial application of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.321429 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.019247
inhalation, longterm systemic	4.679 mg/m ³	5.9 mg/m ³	0.792995
Combined routes	0.98981 mg/kg _{bw} /day	-	0.812242

6.3.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 8B *Industrial application of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.309933 mg/kg _{bw} /day	-	0.058717

6.3.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 10 *Industrial application of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.548571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.032849
inhalation, longterm systemic (measured / external: Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I.)	1 mg/m ³	5.9 mg/m ³	0.169492
Combined routes	0.691429 mg/kg _{bw} /day	-	0.20234

6.3.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 14 *Industrial application of sealants and adhesives*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.068571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.004106
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.104218 mg/kg _{bw} /day	-	0.046399

7.1 Scenario 6: Industrial application of coatings and fillers (6)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 6

Free short title	Industrial application of coatings and fillers (6)
Systematic title based on use descriptor	ERC 5; PROC 5, 7, 8B, 10, 13
Name of contributing environmental scenario and corresponding ERC	ERC 5 Industrial use resulting in inclusion into or onto a matrix

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Name(s) of contributing worker scenarios and corresponding PROCs	PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 7 - Industrial spraying PROC 7 - Industrial spraying PROC 8b - Transfer of chemicals from/to vessels/ large containers at dedicated facilities PROC 10 - Roller application or brushing PROC 13 - Treatment of articles by dipping and pouring
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7.2 Conditions of use affecting exposure

7.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 5

Operational conditions	
Annual site tonnage	700 to/year
Daily amount used at site	3,111.111 kg/day
Release times per year	225 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	2 %
Release fraction to wastewater from process	0 %
Release fraction to soil from process	0 %
Fraction tonnage to region	100 %
Fraction used at main source	100 %
STP	no
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Risk management measures	
SpERC	CEPE SPERC 5.1a.v1 - CEPE - application - industrial - spraying - indoor use - solids

7.2.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 5

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid

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Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

7.2.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 7

Name of contributing scenario	PROC 7 Industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	180 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 180 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	yes (inhalation 95 %)

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Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

7.2.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 7

Name of contributing scenario	PROC 7 Industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	180 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 180 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

7.2.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 8B

Name of contributing scenario	PROC 8b Transfer of chemicals from/to vessels/ large containers at dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)

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Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

7.2.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 10

Name of contributing scenario	PROC 10 Roller application or brushing
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Use of external/measured value inhalation	Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I .

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7.2.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 13

Name of contributing scenario	PROC 13 Treatment of articles by dipping and pouring
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

7.3 Exposure estimation

7.3.1 Contributing Scenario (1) controlling environmental exposure for ERC5

Industrial application of coatings and fillers

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

7.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	5.28E-6 mg/L	0.029 mg/L	0.000182	1.71E7
Freshwater sediment	0.02025 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.001821	1.71E6
Marine water	8.00E-7 mg/L	0.0029 mg/L	0.000276	1.13E7

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Marine water sediment	0.003069 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.002765	1.13E6

7.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.439917 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.019816	8,075.267

7.3.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 5 *Industrial application of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.309933 mg/kg _{bw} /day	-	0.058717

7.3.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 7 *Industrial application of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.321429 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.019247
inhalation, longterm systemic	4.679 mg/m ³	5.9 mg/m ³	0.792995
Combined routes	0.98981 mg/kg _{bw} /day	-	0.812242

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7.3.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 7 *Industrial application of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.321429 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.019247
inhalation, longterm systemic	4.679 mg/m ³	5.9 mg/m ³	0.792995
Combined routes	0.98981 mg/kg _{bw} /day	-	0.812242

7.3.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 8B *Industrial application of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.309933 mg/kg _{bw} /day	-	0.058717

7.3.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 10 *Industrial application of coatings and fillers*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.548571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.032849
inhalation, longterm systemic (measured / external: Inhalation exposure was estimated)	1 mg/m ³	5.9 mg/m ³	0.169492

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
using ART version 1.5. For details, please refer to Annex I.)			
Combined routes	0.691429 mg/kg _{bw} /day	-	0.20234

7.3.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 13
Industrial application of coatings and fillers

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.249529 mg/m ³	5.9 mg/m ³	0.042293
Combined routes	0.309933 mg/kg _{bw} /day	-	0.058717

8.1 Scenario 7: Professional application of sealants and adhesives (indoor) (7)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 7

Free short title	Professional application of sealants and adhesives (indoor) (7)
Systematic title based on use descriptor	ERC 8C; PROC 5, 8A, 10, 11, 14
Name of contributing environmental scenario and corresponding ERC	ERC 8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation

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8.2 Conditions of use affecting exposure

8.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8C

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

8.2.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional

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Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

8.2.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A

Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

8.2.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10

Name of contributing scenario	PROC 10 Roller application or brushing
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible

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Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Use of external/measured value inhalation	Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I .

8.2.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11

Name of contributing scenario	PROC 11 Non industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	8 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	240 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 240 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no

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Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

8.2.6 Contributing Scenario (6) controlling professional worker exposure for PROC 14

Name of contributing scenario	PROC 14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

8.3 Exposure estimation

8.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8C *Professional application of sealants and adhesives (indoor)*

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

8.3.1.1 Aquatic compartment (including sediment)

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

8.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

8.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

8.3.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5 *Professional application of sealants and adhesives (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

8.3.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A *Professional application of sealants and adhesives (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

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The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

8.3.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10 *Professional application of sealants and adhesives (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.548571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.032849
inhalation, longterm systemic (measured / external: Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I.)	1 mg/m ³	5.9 mg/m ³	0.169492
Combined routes	0.691429 mg/kg _{bw} /day	-	0.20234

8.3.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11 *Professional application of sealants and adhesives (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.857143 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.051326
inhalation, longterm systemic	4.991 mg/m ³	5.9 mg/m ³	0.845862
Combined routes	1.57 mg/kg _{bw} /day	-	0.897187

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8.3.6 Contributing Scenario (6) controlling professional worker exposure for PROC 14 *Professional application of sealants and adhesives (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.068571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.004106
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.093524 mg/kg _{bw} /day	-	0.033711

9.1 Scenario 8: Professional application of sealants and adhesives (outdoor) (8)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 8

Free short title	Professional application of sealants and adhesives (outdoor) (8)
Systematic title based on use descriptor	ERC 8F; PROC 5, 8A, 10, 11, 14
Name of contributing environmental scenario and corresponding ERC	ERC 8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation

9.2 Conditions of use affecting exposure

9.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8F

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day

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Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0.500 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

9.2.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

9.2.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A

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Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

9.2.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10

Name of contributing scenario	PROC 10 Roller application or brushing
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)

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Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Use of external/measured value inhalation	Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I .

9.2.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11

Name of contributing scenario	PROC 11 Non industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	8 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 8</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	360 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 360 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

9.2.6 Contributing Scenario (6) controlling professional worker exposure for PROC 14

Name of contributing scenario	PROC 14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
Product characteristics	
Physical state	liquid

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Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

9.3 Exposure estimation

9.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8F
Professional application of sealants and adhesives (outdoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

9.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

9.3.1.2 Terrestrial compartment

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

9.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

9.3.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5 *Professional application of sealants and adhesives (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

9.3.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A *Professional application of sealants and adhesives (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

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9.3.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10 *Professional application of sealants and adhesives (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.548571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.032849
inhalation, longterm systemic (measured / external: Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I.)	0.600 mg/m ³	5.9 mg/m ³	0.101695
Combined routes	0.634286 mg/kg _{bw} /day	-	0.134544

9.3.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11 *Professional application of sealants and adhesives (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.076989
inhalation, longterm systemic	5.24 mg/m ³	5.9 mg/m ³	0.888155
Combined routes	2.034 mg/kg _{bw} /day	-	0.965144

9.3.6 Contributing Scenario (6) controlling professional worker exposure for PROC 14 *Professional application of sealants and adhesives (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.068571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.004106

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.093524 mg/kg _{bw} /day	-	0.033711

10.1 Scenario 9: Professional application of coatings and fillers (indoor) (9)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 9

Free short title	Professional application of coatings and fillers (indoor) (9)
Systematic title based on use descriptor	ERC 8C; PROC 5, 8A, 10, 11, 13
Name of contributing environmental scenario and corresponding ERC	ERC 8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 13 - Treatment of articles by dipping and pouring

10.2 Conditions of use affecting exposure

10.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8C

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %

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STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

10.2.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

10.2.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A

Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	

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Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

10.2.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10

Name of contributing scenario	PROC 10 Roller application or brushing
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %

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Respiratory protection	no
Use of external/measured value inhalation	Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I .

10.2.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11

Name of contributing scenario	PROC 11 Non industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	8 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 8</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	240 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 240 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

10.2.6 Contributing Scenario (6) controlling professional worker exposure for PROC 13

Name of contributing scenario	PROC 13 Treatment of articles by dipping and pouring
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week

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Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

10.3 Exposure estimation

10.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8C
Professional application of coatings and fillers (indoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

10.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

10.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

10.3.1.3 Microbiological activity in sewage treatment systems

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

10.3.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5 *Professional application of coatings and fillers (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

10.3.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A *Professional application of coatings and fillers (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

10.3.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10 *Professional application of coatings and fillers (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.548571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.032849
inhalation, longterm systemic (measured / external: Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I.)	1 mg/m ³	5.9 mg/m ³	0.169492
Combined routes	0.691429 mg/kg _{bw} /day	-	0.20234

10.3.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11 *Professional application of coatings and fillers (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.857143 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.051326
inhalation, longterm systemic	4.991 mg/m ³	5.9 mg/m ³	0.845862
Combined routes	1.57 mg/kg _{bw} /day	-	0.897187

10.3.6 Contributing Scenario (6) controlling professional worker exposure for PROC 13 *Professional application of coatings and fillers (indoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

11.1 Scenario 10: Professional application of coatings and fillers (outdoor) (10)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenari-

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os are described in the respective subchapters.

Description of ES 10

Free short title	Professional application of coatings and fillers (outdoor) (10)
Systematic title based on use descriptor	ERC 8F; PROC 5, 8A, 10, 11, 13
Name of contributing environmental scenario and corresponding ERC	ERC 8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 13 - Treatment of articles by dipping and pouring

11.2 Conditions of use affecting exposure

11.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8F

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0.500 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

11.2.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5

Name of contributing scenario	PROC 5 Mixing or blending in batch processes (multistage and/or significant contact)
Product characteristics	

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Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

11.2.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A

Name of contributing scenario	PROC 8a Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	

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Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

11.2.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10

Name of contributing scenario	PROC 10 Roller application or brushing
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Use of external/measured value inhalation	Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I .

11.2.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11

Name of contributing scenario	PROC 11 Non industrial spraying
Product characteristics	
Physical state	liquid
Concentration in substance	8 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 8</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	

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Duration of activity	360 min/day, duration of activity has been considered linearly (<i>justification: Do not carry out activity for more than 360 min/day.</i>)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

11.2.6 Contributing Scenario (6) controlling professional worker exposure for PROC 13

Name of contributing scenario	PROC 13 Treatment of articles by dipping and pouring
Product characteristics	
Physical state	liquid
Concentration in substance	10 %, concentration has been considered linearly (<i>justification: Limit the substance in product to (%): 10</i>)
Fugacity / Dustiness	negligible
Frequency and duration of use	
Duration of activity	> 4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

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11.3 Exposure estimation

11.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8F
Professional application of coatings and fillers (outdoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

11.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

11.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

11.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

11.3.2 Contributing Scenario (2) controlling professional worker exposure for PROC 5
Professional application of coatings and fillers (outdoor)

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

11.3.3 Contributing Scenario (3) controlling professional worker exposure for PROC 8A *Professional application of coatings and fillers (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

11.3.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10 *Professional application of coatings and fillers (outdoor)*

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.548571 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.032849
inhalation, longterm systemic (measured / external: Inhalation exposure was estimated using ART version 1.5. For details, please refer to Annex I.)	0.600 mg/m ³	5.9 mg/m ³	0.101695
Combined routes	0.634286 mg/kg _{bw} /day	-	0.134544

11.3.5 Contributing Scenario (5) controlling professional worker exposure for PROC 11

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Professional application of coatings and fillers (outdoor)

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	1.286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.076989
inhalation, longterm systemic	5.24 mg/m ³	5.9 mg/m ³	0.888155
Combined routes	2.034 mg/kg _{bw} /day	-	0.965144

11.3.6 Contributing Scenario (6) controlling professional worker exposure for PROC 13

Professional application of coatings and fillers (outdoor)

The quantitative risk characterisation for this worker exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the dermal and inhalatory route together with the total exposure of workers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal, longterm systemic	0.274286 mg/kg _{bw} /day	16.7 mg/kg _{bw} /day	0.016424
inhalation, longterm systemic	0.17467 mg/m ³	5.9 mg/m ³	0.029605
Combined routes	0.299239 mg/kg _{bw} /day	-	0.046029

12.1 Scenario 11: Consumer use of sealants and adhesives (indoor) (11)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 11

Free short title	Consumer use of sealants and adhesives (indoor) (11)
Systematic title based on use descriptor	ERC 8C; PC 1
Name of contributing environmental scenario and corresponding ERC	ERC 8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
Name(s) of contributing consumer scenarios and corresponding PCs/ACs	PC 1 Adhesives, Sealants PC 1 Adhesives, Sealants PC 1 Adhesives, Sealants

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12.2 Conditions of use affecting exposure

12.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8C

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

12.2.2 Contributing Scenario (2) controlling consumer exposure for PC 1

Name of contributing scenario	PC 1 Adhesives, Sealants
Scenario subtitle	Mixing loading
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %

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Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Dermal	2 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	215 cm ²
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	1 m ³
Ventilation rate	0.600 1/h
Release are is constant	
Release area	1,000 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

12.2.3 Contributing Scenario (3) controlling consumer exposure for PC 1

Name of contributing scenario	PC 1 Adhesives, Sealants
Scenario subtitle	Glue to surface
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Release duration	1.73E6 sec
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %

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Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	430 cm ²
Contact rate	30 mg/min
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	58 m ³
Ventilation rate	0.500 1/h
Release area increases over time	
Release area	1.00E4 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

12.2.4 Contributing Scenario (4) controlling consumer exposure for PC 1

Name of contributing scenario	PC 1 Adhesives, Sealants
Scenario subtitle	Joint and assembly sealant
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Release duration	1,800 sec
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %

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Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	2 cm ²
Contact rate	50 mg/min
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	20 m ³
Ventilation rate	0.600 1/h
Release area increases over time	
Release area	1.5 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

12.3 Exposure estimation

12.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8C
Consumer use of sealants and adhesives (indoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

12.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

12.3.1.2 Terrestrial compartment

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

12.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

12.3.2 Contributing Scenario (2) controlling consumer exposure for PC 1 *Consumer use of sealants and adhesives (indoor) Mixing loading*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.009132 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.0011
inhalation longterm systemic (Mean concentration yearly)	0.00009 mg/m ³	1.25 mg/m ³	0.000072
oral	-	-	-
Combined routes	0.009149 mg/kg _{bw} /day	-	0.001173

12.3.3 Contributing Scenario (3) controlling consumer exposure for PC 1 *Consumer use of sealants and adhesives (indoor) Glue to surface*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	3.945 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.475326
inhalation longterm systemic (Mean concentration yearly)	0.000079 mg/m ³	1.25 mg/m ³	0.000063

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
oral	-	-	-
Combined routes	3.945 mg/kg _{bw} /day	-	0.475389

12.3.4 Contributing Scenario (4) controlling consumer exposure for PC 1 *Consumer use of sealants and adhesives (indoor) Joint and assembly sealant*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.006849 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.000825
inhalation longterm systemic (Mean concentration yearly)	0.000021 mg/m ³	1.25 mg/m ³	0.000017
oral	-	-	-
Combined routes	0.006853 mg/kg _{bw} /day	-	0.000842

13.1 Scenario 12: Consumer use of sealants and adhesives (outdoor) (12)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 12

Free short title	Consumer use of sealants and adhesives (outdoor) (12)
Systematic title based on use descriptor	ERC 8F; PC 1
Name of contributing environmental scenario and corresponding ERC	ERC 8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
Name(s) of contributing consumer scenarios and corresponding PCs/ACs	PC 1 Adhesives, Sealants PC 1 Adhesives, Sealants PC 1 Adhesives, Sealants

13.2 Conditions of use affecting exposure

13.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8F

Operational conditions

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ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0.500 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

13.2.2 Contributing Scenario (2) controlling consumer exposure for PC 1

Name of contributing scenario	PC 1 Adhesives, Sealants
Scenario subtitle	Mixing loading
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %
Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g

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Dermal	2 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	215 cm ²
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	1 m ³
Ventilation rate	0.600 1/h
Release are is constant	
Release area	1,000 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

13.2.3 Contributing Scenario (3) controlling consumer exposure for PC 1

Name of contributing scenario	PC 1 Adhesives, Sealants
Scenario subtitle	Glue to surface
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Release duration	1.73E6 sec
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %
Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g

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Human factors not influenced by risk management	
Exposed skin surface (dermal)	430 cm ²
Contact rate	30 mg/min
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	58 m ³
Ventilation rate	0.500 1/h
Release area increases over time	
Release area	1.00E4 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

13.2.4 Contributing Scenario (4) controlling consumer exposure for PC 1

Name of contributing scenario	PC 1 Adhesives, Sealants
Scenario subtitle	Joint and assembly sealant
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Release duration	1,800 sec
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %
Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g

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Human factors not influenced by risk management	
Exposed skin surface (dermal)	2 cm ²
Contact rate	50 mg/min
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	20 m ³
Ventilation rate	0.600 1/h
Release area increases over time	
Release area	1.5 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

13.3 Exposure estimation

13.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8F
Consumer use of sealants and adhesives (outdoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

13.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

13.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

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13.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

13.3.2 Contributing Scenario (2) controlling consumer exposure for PC 1 *Consumer use of sealants and adhesives (outdoor) Mixing loading*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.009132 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.0011
inhalation longterm systemic (Mean concentration yearly)	0.00009 mg/m ³	1.25 mg/m ³	0.000072
oral	-	-	-
Combined routes	0.009149 mg/kg _{bw} /day	-	0.001173

13.3.3 Contributing Scenario (3) controlling consumer exposure for PC 1 *Consumer use of sealants and adhesives (outdoor) Glue to surface*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	3.945 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.475326
inhalation longterm systemic (Mean concentration yearly)	0.000079 mg/m ³	1.25 mg/m ³	0.000063
oral	-	-	-
Combined routes	3.945 mg/kg _{bw} /day	-	0.475389

13.3.4 Contributing Scenario (4) controlling consumer exposure for PC 1

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Consumer use of sealants and adhesives (outdoor) Joint and assembly sealant

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.006849 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.000825
inhalation longterm systemic (Mean concentration yearly)	0.000021 mg/m ³	1.25 mg/m ³	0.000017
oral	-	-	-
Combined routes	0.006853 mg/kg _{bw} /day	-	0.000842

14.1 Scenario 13: Consumer use of coatings and fillers (indoor) (13)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 13

Free short title	Consumer use of coatings and fillers (indoor) (13)
Systematic title based on use descriptor	ERC 8C; PC 9a, 9b
Name of contributing environmental scenario and corresponding ERC	ERC 8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
Name(s) of contributing consumer scenarios and corresponding PCs/ACs	PC 9a Coatings and Paints, thinners, paint removers PC 9b Filler, putties

14.2 Conditions of use affecting exposure

14.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8C

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0 %

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Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

14.2.2 Contributing Scenario (2) controlling consumer exposure for PC 9a

Name of contributing scenario	PC 9a Coatings and paints, thinners, paint removers
Scenario subtitle	General coatings
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %
Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Dermal	0.250 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	108 cm ²
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	34 m ³
Ventilation rate	1.5 l/h
Release area increases over time	

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Release area	1.50E5 cm ²
Release temperature	15 °C
Dermal	
Uptake fraction	100 %

14.2.3 Contributing Scenario (3) controlling consumer exposure for PC 9b

Name of contributing scenario	PC 9b Fillers, putties, plasters, modelling clay
Scenario subtitle	Fillers, putties
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	3 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	3 per year
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %
Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Dermal	0.050 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	22 cm ²
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	20 m ³
Ventilation rate	0.600 1/h
Release area increases over time	
Release area	200 cm ²

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Release temperature	20 °C
Dermal	
Uptake fraction	100 %

14.3 Exposure estimation

14.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8C
Consumer use of coatings and fillers (indoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

14.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

14.3.1.2 Terrestrial compartment

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

14.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

14.3.2 Contributing Scenario (2) controlling consumer exposure for PC 9a
Consumer use of coatings and fillers (indoor) General coatings

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

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The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.001142 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.000138
inhalation longterm systemic (Mean concentration yearly)	0.000081 mg/m ³	1.25 mg/m ³	0.000065
oral	-	-	-
Combined routes	0.001156 mg/kg _{bw} /day	-	0.000203

14.3.3 Contributing Scenario (3) controlling consumer exposure for PC 9b *Consumer use of coatings and fillers (indoor) Fillers, putties*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.000685 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.000083
inhalation longterm systemic (Mean concentration yearly)	0.000225 mg/m ³	1.25 mg/m ³	0.00018
oral	-	-	-
Combined routes	0.000726 mg/kg _{bw} /day	-	0.000263

15.1 Scenario 14: Consumer use of coatings and fillers (outdoor) (14)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

Description of ES 14

Free short title	Consumer use of coatings and fillers (outdoor) (14)
Systematic title based on use descriptor	ERC 8F; PC 9a, 9b
Name of contributing environmental scenario and corresponding ERC	ERC 8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
Name(s) of contributing consumer scenarios and corresponding PCs/ACs	PC 9a Coatings and Paints, thinners, paint removers PC 9b Filler, putties

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15.2 Conditions of use affecting exposure

15.2.1 Contributing Scenario (1) controlling environmental exposure for ERC 8F

Operational conditions	
ANNUAL_TONNAGE	700 to/year
Daily amount used at site	0.383562 kg/day
Release times per year	365 days/year
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	15 %
Release fraction to wastewater from process	1 %
Release fraction to soil from process	0.500 %
Fraction tonnage to region	10 %
Fraction used at main source	0.200 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

15.2.2 Contributing Scenario (2) controlling consumer exposure for PC 9a

Name of contributing scenario	PC 9a Coatings and paints, thinners, paint removers
Scenario subtitle	General coatings
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	1 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	1 per year
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %

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Mol weight matrix	3,000 g/mol
Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Dermal	0.250 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	108 cm ²
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	34 m ³
Ventilation rate	1.5 1/h
Release are is constant	
Release area	1.50E5 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

15.2.3 Contributing Scenario (3) controlling consumer exposure for PC 9b

Name of contributing scenario	PC 9b Fillers, putties, plasters, modelling clay
Scenario subtitle	Fillers, putties
Calculation model	ConsExpo
Frequency and duration of use	
Inhalation	
Exposure calculation result type	Mean concentration yearly
Frequency of use	3 per year
Exposure time	480 min
Application duration	480 min
Dermal	
Exposure calculation result type	Internal dose chronic
Frequency of use	3 per year
Product characteristics	
Spray application	no
Product ingredient fraction by weight	10 %
Mol weight matrix	3,000 g/mol

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Mass transfer rate	- m/min
Amounts used	
Inhalation	1.00E4 g
Dermal	0.050 g
Human factors not influenced by risk management	
Exposed skin surface (dermal)	22 cm ²
Other given operational conditions affecting consumers exposure	
Inhalation	
Room volume	20 m ³
Ventilation rate	0.600 1/h
Release area increases over time	
Release area	200 cm ²
Release temperature	20 °C
Dermal	
Uptake fraction	100 %

15.3 Exposure estimation

15.3.1 Contributing Scenario (1) controlling environmental exposure for ERC8F
Consumer use of coatings and fillers (outdoor)

The quantitative risk characterisation for this environmental exposure has been calculated using EasyTRA.

The environmental exposure calculation per compartment is based on the algorithms of the EU TGD 2003 Risk Assessment Spreadsheet Model 1.24a.

15.3.1.1 Aquatic compartment (including sediment)

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Freshwater	0.000038 mg/L	0.029 mg/L	0.001317	291.292
Freshwater sediment	0.146529 mg/kg _{dwt}	111.2 mg/kg _{dwt}	0.013177	29.108
Marine water	4.09E-6 mg/L	0.0029 mg/L	0.001411	271.924
Marine water sediment	0.015697 mg/kg _{dwt}	11.1 mg/kg _{dwt}	0.014141	27.124

15.3.1.2 Terrestrial compartment

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Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
Agricultural soil	0.044494 mg/kg _{dwt}	22.2 mg/kg _{dwt}	0.002004	43.55

15.3.1.3 Microbiological activity in sewage treatment systems

Compartments	PEC	PNEC	RCR = PEC/PNEC	MSafe kg/d
STP	0.000348 mg/L	35 mg/L	9.94E-6	3.86E4

15.3.2 Contributing Scenario (2) controlling consumer exposure for PC 9a *Consumer use of coatings and fillers (outdoor) General coatings*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.001142 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.000138
inhalation longterm systemic (Mean concentration yearly)	0.000085 mg/m ³	1.25 mg/m ³	0.000068
oral	-	-	-
Combined routes	0.001157 mg/kg _{bw} /day	-	0.000206

15.3.3 Contributing Scenario (3) controlling consumer exposure for PC 9b *Consumer use of coatings and fillers (outdoor) Fillers, putties*

The quantitative risk characterisation for this consumer exposure has been calculated by EasyTRA.

The following table shows the exposure estimations via the oral, dermal and inhalatory route together with the total exposure of consumers over all routes.

Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
dermal longterm systemic	0.000685 mg/kg _{bw} /day	8.3 mg/kg _{bw} /day	0.000083
inhalation longterm systemic (Mean concentration yearly)	0.000225 mg/m ³	1.25 mg/m ³	0.00018

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Route	Exposure concentration (EC)	DNEL	Risk characterisation ratio = EC/DNEL
oral	-	-	-
Combined routes	0.000726 mg/kg _{bw} /day	-	0.000263

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Annex I Art Report

ART REPORT – PROC 10 Roller application or brushing-indoors

Details for Activity PROC 10

Emission sources: Near field ✓
 Far field

Duration (mins): 480

Near-field exposure

Operational Conditions

Substance emission potential

Substance product type	Liquids
Process temperature	Room temperature
Vapour pressure	1 Pa
Liquid weight fraction	0.1
Viscosity	Low

Activity emission potential

Activity class	Spreading of liquid products
Situation	Spreading of liquids at surfaces or work pieces > 3 m ² / hour

Surface contamination

Process fully enclosed?	No
Effective housekeeping practices in place?	Yes

Dispersion

Work area	Indoors
Room size	30 m ³

Risk Management Measures

Localised controls

Primary	No localized controls (0.00 % reduction)
Secondary	No localized controls (0.00 % reduction)

Dispersion

Ventilation rate	3 air changes per hour (ACH)
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Predicted exposure levels

ART predicts air concentrations in a worker's personal breathing zone outside of any Respiratory Protection Equipment (RPE). The use of RPE must be considered separately.

Mechanistic model results

The predicted 75th percentile full-shift exposure is 0.47 mg/m³.

The inter-quartile confidence interval is 0.22 mg/m³ to 1 mg/m³.

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ART REPORT – PROC 10 Roller application or brushing-outdoors Details for Activity PROC 10

Emission sources: Near field  Far field
Duration (mins): 480

Near-field exposure

Operational Conditions

Substance emission potential

Substance product type	Liquids
Process temperature	Room temperature
Vapour pressure	1 Pa
Liquid weight fraction	0.1
Viscosity	Low

Activity emission potential

Activity class	Spreading of liquid products
Situation	Spreading of liquids at surfaces or work pieces > 3 m ² / hour

Surface contamination

Process fully enclosed?	No
Effective housekeeping practices in place?	Yes

Dispersion

Work area	Outdoors
Source located close to buildings?	Yes

Risk Management Measures

Localised controls

Primary	No localized controls (0.00 % reduction)
Secondary	No localized controls (0.00 % reduction)

Predicted exposure levels

ART predicts air concentrations in a worker's personal breathing zone outside of any Respiratory Protection Equipment (RPE). The use of RPE must be considered separately.

Mechanistic model results

The predicted 75th percentile full-shift exposure is 0.26 mg/m³.

The inter-quartile confidence interval is 0.12 mg/m³ to 0.6 mg/m³.

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