

1. Exposure scenario 4.0

Wide dispersive use

ES Ref.: 4.0
ES Type: Worker

Use descriptors	SU22 PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15 PC21, PC31, PC35, PC39 ERC8a
Processes, tasks, activities covered	Professional use
Assessment method	Used ECETOC TRA model Used EUSES model

2. Operational conditions and risk management measures

2.1.1 Contributing scenario controlling worker exposure (PROC1, PROC4, PROC8a, PROC10, PROC11)

Professional use of Laundry products	
PROC1	Use in closed process, no likelihood of exposure
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC10	Roller application or brushing
PROC11	Non industrial spraying

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

Operational conditions

Amounts used	not relevant	
Frequency and duration of use	PROC 1	8 H/Day
	PROC 4	15 min/day
	PROC 8a, 11	20 min/day
	PROC 10	400 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	

Risk Management Measures

Technical conditions and measures at process level (source) to prevent release	Used in closed systems. Machine wash	
Technical conditions and measures to control dispersion from source towards the worker	Used in closed systems. Machine wash	
	Automatic dispensers. Detergents	
	Local exhaust ventilation. Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	Changing of container
	Wear suitable gloves tested to EN374. ≥ Category 2	Changing of container

2.1.2 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC8a, PROC8b, PROC10)

Professional Use of Dishwash products	
PROC1	Use in closed process, no likelihood of exposure
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10	Roller application or brushing

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

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Operational conditions		
Amounts used	not relevant	
Frequency and duration of use	PROC 1, 2	8 H/Day
	PROC 8a	15 min/day
	PROC 8b	5 min/day
	PROC 10	4 H/Day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	

Risk Management Measures		
Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Used in closed systems. Machine wash	
	Local exhaust ventilation. Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	Changing of container
	Wear suitable gloves tested to EN374. ≥ Category 2	Changing of container

2.1.3 Contributing scenario controlling worker exposure (PROC8a, PROC10, PROC11, PROC13)

Professional Use of General surface cleaning products		
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	
PROC10	Roller application or brushing	
PROC11	Non industrial spraying	
PROC13	Treatment of articles by dipping and pouring	

Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	

Operational conditions		
Amounts used	not relevant	
Frequency and duration of use	PROC 8a	16 min/day
	PROC 10	8 H/Day
	PROC 11	40 min/day
	PROC 8	8 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	

Risk Management Measures		
Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	
	Wear suitable gloves tested to EN374. ≥ Category 2	

2.1.4 Contributing scenario controlling worker exposure (PROC8a, PROC10, PROC11)

Professional Use of Floor care products		
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	
PROC10	Roller application or brushing	
PROC11	Non industrial spraying	

Product characteristics		
Physical form of product	Solid, Liquid	

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Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	
Operational conditions		
Amounts used	not relevant	
Frequency and duration of use	PROC 8a	16 min/day
	PROC 10	8 H/Day
	PROC 11	40 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	
Risk Management Measures		
Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	Changing of container
	Wear suitable gloves tested to EN374. ≥ Category 2	Changing of container
	Wear suitable gloves tested to EN374. ≥ Category 2	In case of repeated or prolonged contact wear gloves. Floor cleaning (liquids)

2.1.5 Contributing scenario controlling worker exposure (PROC2, PROC8b, PROC10, PROC11, PROC13)

Professional Use of Maintenance Products	
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

Operational conditions

Amounts used	not relevant	
Frequency and duration of use	PROC 2, 10	8 H/Day
	PROC 8b	40 min/day
	PROC 11	10 min/day
	PROC 13	5 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	

Risk Management Measures

Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	Drain openers. Transfer of substance or preparation into small containers
	Wear suitable gloves tested to EN374. ≥ Category 2	Drain openers. Transfer of substance or preparation into small containers

2.1.6 Contributing scenario controlling worker exposure (PROC4, PROC8a, PROC10, PROC11)

Professional Use of Vehicle cleaning Products	
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises

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PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC10	Roller application or brushing
PROC11	Non industrial spraying

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

Operational conditions

Amounts used	not relevant	
Frequency and duration of use	PROC 4, 10	8 H/Day
	PROC 8a	30 min/day
	PROC 11	40 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
	Spraying	Whole body
Other given operational conditions affecting workers exposure	Indoor/Outdoor use	

Risk Management Measures

Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	
	Wear suitable gloves tested to EN374. ≥ Category 2	
	Spraying. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection APF 10x	
	Possibility of exposure to: . Whole body. Wear suitable coveralls to prevent exposure to the skin. Wear suitable face shield	

2.1.7 Contributing scenario controlling worker exposure (PROC8a, PROC10)

Professional Use of Food beverage and pharmacos products AISE P808.1, P808.2	
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC10	Roller application or brushing

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

Operational conditions

Amounts used	not relevant	
Frequency and duration of use	PROC 8a	16 min/day
	PROC 10	8 H/Day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	

Risk Management Measures

Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Not required	

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2.1.8 Contributing scenario controlling worker exposure (PROC8a, PROC10, PROC11)

Professional Use of Façade/surface Cleaning Products		
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	
PROC10	Roller application or brushing	
PROC11	Non industrial spraying	
Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	
Operational conditions		
Amounts used	not relevant	
Frequency and duration of use	PROC 8a	15 min/day
	PROC 10, 11	8 H/Day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor/Outdoor use	
	Covers use at ambient temperatures	
Risk Management Measures		
Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	
	During spraying wear suitable respiratory equipment. Respiratory protection APF 10x	
	Wear suitable gloves tested to EN374. ≥ Category 2	
	Possibility of exposure to: . Whole body. Wear suitable coveralls to prevent exposure to the skin. Wear suitable face shield	

2.1.9 Contributing scenario controlling worker exposure (PROC1, PROC8a, PROC10, PROC11, PROC13)

Professional Use of Medical Devices		
PROC1	Use in closed process, no likelihood of exposure	
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	
PROC10	Roller application or brushing	
PROC11	Non industrial spraying	
PROC13	Treatment of articles by dipping and pouring	
Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	
Operational conditions		
Amounts used	not relevant	
Frequency and duration of use	PROC 1,10	8 H/Day
	PROC 8a	16 min/day
	PROC 11	40 min/day
	PROC 13	60 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	indoor	
	Covers use at ambient temperatures	
Risk Management Measures		
Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases,	Ensure operatives are trained to minimise exposures	

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dispersion and exposure	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	
	Wear suitable gloves tested to EN374. ≥ Category 2	

2.1.10 Contributing scenario controlling worker exposure (PROC15)

Equipment cleaning and maintenance - Laboratory use		
PROC15	Use as laboratory reagent	

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

Operational conditions

Amounts used	not relevant	
Frequency and duration of use	PROC 15	40 min/day
Human factors not influenced by risk management	Area of skin contact	Hands and forearms
Other given operational conditions affecting workers exposure	Indoor use	
	Covers use at ambient temperatures	

Risk Management Measures

Technical conditions and measures at process level (source) to prevent release	Not required	
Technical conditions and measures to control dispersion from source towards the worker	Not required	
Organisational measures to prevent /limit releases, dispersion and exposure	Ensure operatives are trained to minimise exposures	
	Regular inspection and maintenance of equipment and machines	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection	
	Wear suitable gloves tested to EN374. ≥ Category 2	

2.2 Contributing scenario controlling environmental exposure (ERC8a)

ERC8a	Wide dispersive indoor use of processing aids in open systems	
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Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution.

Operational conditions

Frequency and duration of use	Continuous use/release	
Environmental factors not influenced by risk management	Receiving surface water flow is 18000 m³/d	
	Local freshwater dilution factor:	10
	Local marine water dilution factor:	100
Other given operational conditions affecting environmental exposure	Not specified	

Risk Management Measures

Technical conditions and measures at process level (source) to prevent release	Not specified	
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Release fraction to air from process (initial release prior to RMM):	Not applicable
	Release fraction to wastewater from process (initial release prior to RMM):	100 %
Organisation measures to prevent/limit release from site	Not specified	
Conditions and measures related to sewage treatment plant	Release to municipal sewage treatment plant :	2000 m³/d
Conditions and measures related to external treatment of waste for disposal	Not applicable	
Conditions and measures related to external recovery of waste	Not applicable	

3. Exposure estimation and reference to its source

3.1. Health

Information for contributing exposure scenario	
2.1.1	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

2.1.2	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
2.1.3	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
2.1.4	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
2.1.5	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
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2.1.7	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
2.1.8	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
2.1.9	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.
2.1.10	The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

3.2. Environment

Information for contributing exposure scenario	
2.2	Used EUSES model

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

4.1. Health

Guidance - Health	Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels
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4.2. Environment

Guidance - Environment	Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels
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1. Exposure scenario 5.0

Wide dispersive use

ES Ref.: 5.0
ES Type: Consumer

Use descriptors	SU21 PC35, PC39 ERC8a
Processes, tasks, activities covered	Consumer use
Assessment method	ConsExpo v4.1 Used EUSES model

2. Operational conditions and risk management measures

2.1.1 Contributing scenario consumer end-use (PC35, PC39)

laundry products	
PC35	Washing and cleaning products (including solvent based products)
PC39	Cosmetics, personal care products

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %

Operational conditions

Amounts used	Amount used per application	200 g Powder
Frequency and duration of use	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006) :	
	Detergent powders :	
	Machine wash,Exposure duration	365 Day/Year
	Machine wash,Exposure frequency	0,25 minutes
	Hand wash,Exposure duration	104 Day/Year
	Hand wash,Exposure frequency	10 minutes
	Detergent liquids :	
	Machine wash,Exposure duration	365 Day/Year
	Machine wash,Exposure frequency	0,75 minutes
	Hand wash,Exposure duration	104 Day/Year
	Hand wash,Exposure frequency	10 minutes
	Laundry pre-treatment products :	
	Spot removers (liquid),Exposure frequency	128 Day/Year
	Spot removers (liquid),Exposure duration,(Washing)	10 minutes
	Spot removers (spray),Exposure frequency	128 Day/Year
	Spot removers (spray),Exposure duration,(Spraying)	0,05 minutes
	Spot removers (spray),Exposure duration,(Washing)	10 minutes
	Pastes,Exposure frequency	128 Day/Year
	Pastes,Exposure duration,(Washing)	10 minutes
	Fabric conditioners,Exposure frequency	365 Day/Year
	Fabric conditioners,Exposure duration	0,75 minutes
Human factors not influenced by risk management	Detergent powders	
	Machine wash	Generation/formation of dust. inhalation exposure
	Hand wash,Area of skin contact	Hands and forearms
	Detergent liquids	
	Hand wash	Hands and forearms
Other given operational conditions affecting consumers exposure	Indoor use	
	Room volume	1 m ³
	Minimum room ventilation rate for handling/application (air changes per hour):	2

Risk Management Measures

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Conditions and measures related to information and behavioural advice to consumers	Avoid repeated or prolonged skin contact	
Conditions and measures related to personal protection, hygiene and health evaluation	Wash hands thoroughly after handling. Wash hands with water and soap	
	Not required	

2.1.2 Contributing scenario consumer end-use (PC35, PC39)

Dishwash product		
PC35	Washing and cleaning products (including solvent based products)	
PC39	Cosmetics, personal care products	
Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	
Operational conditions		
Amounts used	Amount used per application	7 g
Frequency and duration of use	AISE Reach Exposure Assessment Consumer Tool (REACT)	
	Hand dishwashing liquids	
	Exposure frequency	3 t/day Default value
	Exposure duration	0,75 h Default value
	Machine dishwashing products	
	Exposure frequency	Not applicable
	Exposure duration	Not applicable
Human factors not influenced by risk management	Detergent powders	
	Hand wash,Area of skin contact	Hands and forearms
Other given operational conditions affecting consumers exposure	none	
Risk Management Measures		
Conditions and measures related to information and behavioural advice to consumers	Avoid repeated or prolonged skin contact	
	Wash hands thoroughly after handling. Wash hands with water and soap	
Conditions and measures related to personal protection, hygiene and health evaluation	Not required	

2.1.3 Contributing scenario consumer end-use (PC35, PC39)

Cleaners, liquids (all purpose cleaners)		
PC35	Washing and cleaning products (including solvent based products)	
PC39	Cosmetics, personal care products	
Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	
Operational conditions		
Amounts used	Liquid cleaners	Dilution for use application 63g/5L. (water)
	Cleaner,Gel	63 g
	Spray cleaners	≈ 16,2 g
	Wipes	3,4 g
Frequency and duration of use	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006)	
	Liquid cleaners	104 Times per Year
	gel,Cleaner	104 Times per Year
	Spray cleaners	365 Times per Year
	Wipes	365 Times per Year
Human factors not influenced by risk management	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006)	
	Liquid cleaners	Hands and forearms

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	gel formation,Cleaner	Both hands
	Spray cleaners	inhalation exposure. dermal exposure. oral exposure
	Wipes	Palm of one hand
Other given operational conditions affecting consumers exposure	none	
Risk Management Measures		
Conditions and measures related to information and behavioural advice to consumers	Avoid repeated or prolonged skin contact	
	Wash hands thoroughly after handling. Wash hands with water and soap	
Conditions and measures related to personal protection, hygiene and health evaluation	Not required	

2.1.4 Contributing scenario consumer end-use (PC35, PC39)

Sanitary cleaner. Manual process	
PC35	Washing and cleaning products (including solvent based products)
PC39	Cosmetics, personal care products

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution, Limit the substance in product to 10 %

Operational conditions

Amounts used	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006)	
	Bathroom cleaning (spray)	35 g
	Bathroom cleaning (liquid)	44 g
	Toilet cleaners (acid)	55 g
	Toilet cleaners (bleach)	80 g
	Toilet rim cleaners (solid)	70 g
Frequency and duration of use	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006)	
	Bathroom cleaning (spray),Exposure frequency	1 Times per week
	Bathroom cleaning (spray),Exposure duration	1,5 minutes
	Bathroom cleaning (liquid),Exposure frequency,(containing acids)	4 Times per Year
	Toilet cleaners (acid),Exposure frequency	260 Times per Year
	Toilet cleaners (acid),Exposure duration	2 minutes
	Toilet cleaners (bleach),Exposure frequency	120 Times per Year
	Toilet cleaners (bleach),Exposure duration	3 minutes
	Toilet rim cleaners (solid),Exposure frequency	10 uses per day
Human factors not influenced by risk management	Toilet rim cleaners (solid),Exposure duration	5 minutes
	Bathroom cleaning,Spray cleaners	inhalation exposure. dermal exposure. oral exposure
	Bathroom cleaning,Liquid cleaners	dermal exposure
	Toilet cleaners	dermal exposure
Other given operational conditions affecting consumers exposure	Toilet rim cleaners (liquid),Toilet rim cleaners (solid)	inhalation exposure
	spray application	6,4 m ² application area. estimated (ConsExpo)
	Liquid cleaners	6,4 m ² application area. estimated (ConsExpo)

Risk Management Measures

Conditions and measures related to information and behavioural advice to consumers	Wash hands thoroughly after handling. Wash hands with water and soap	
	Avoid repeated or prolonged skin contact	
Conditions and measures related to personal protection, hygiene and health evaluation	Not required	

2.1.5 Contributing scenario consumer end-use (PC35, PC39)

Floor cleaner. Manual process

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PC35	Washing and cleaning products (including solvent based products)	
PC39	Cosmetics, personal care products	
Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	Aqueous solution, Limit the substance in product to 15 %	
Operational conditions		
Amounts used	Carpet cleaning (liquids)	0,5 l
	Carpet powders	2200 g
	Carpet spray spot removers	4 g
	Floor cleaning (liquids)	250 g
Frequency and duration of use	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006)	
	Carpet cleaning (liquids),Exposure frequency	0,5 Times per Year
	Carpet cleaning (liquids),Exposure duration	110 minutes
	Carpet powders,Exposure frequency	0,5 Times per Year
	Carpet powders,Exposure duration	22 minutes
	Carpet spray spot removers	10 Times per Year
	Floor cleaning (liquids),Exposure frequency	104 Times per Year
	Floor cleaning (liquids),Exposure duration	30 minutes dermal.
	Floor cleaning (liquids),Exposure duration	4 h Inhalation
Human factors not influenced by risk management	Carpet cleaning (liquids)	Both hands
	Carpet powders	dermal exposure. oral exposure
	Carpet spray spot removers	Not applicable
	Floor cleaning (liquids)	Hands and forearms. inhalation exposure
Other given operational conditions affecting consumers exposure	Carpet cleaning (liquids)	22 m² application area
	Carpet powders	22 m² application area
	Floor cleaning (liquids)	22 m² application area
Risk Management Measures		
Conditions and measures related to information and behavioural advice to consumers	Avoid repeated or prolonged skin contact	
	Wash hands thoroughly after handling. Wash hands with water and soap	
Conditions and measures related to personal protection, hygiene and health evaluation	Not required	

2.1.6 Contributing scenario consumer end-use (PC35, PC39)

Oven cleaners		
PC35	Washing and cleaning products (including solvent based products)	
PC39	Cosmetics, personal care products	
Product characteristics		
Physical form of product	Solid, Liquid	
Concentration of substance in product	<= 10 %	
	Aqueous solution.	
Operational conditions		
Amounts used	Amounts used	24 g
Frequency and duration of use	Cleaning Products Fact Sheet, Report No. 320104003/2006 RIVM (2006)	
	Exposure frequency	26 Times per Year
Human factors not influenced by risk management	Oven cleaners	oral exposure. inhalation exposure. dermal exposure
Other given operational conditions affecting consumers exposure	spray application	0,9 m²
Risk Management Measures		

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Conditions and measures related to information and behavioural advice to consumers	Wash hands thoroughly after handling. Wash hands with water and soap	
	Avoid repeated or prolonged skin contact	
Conditions and measures related to personal protection, hygiene and health evaluation	Not required	

2.2 Contributing scenario controlling environmental exposure (ERC8a)

Wide dispersive use		
ERC8a	Wide dispersive indoor use of processing aids in open systems	

Product characteristics

Physical form of product	Solid, Liquid
Concentration of substance in product	Aqueous solution.

Operational conditions

Frequency and duration of use	Continuous use/release	
Environmental factors not influenced by risk management	Receiving surface water flow is 18000 m³/d	
	Local freshwater dilution factor:	10
	Local marine water dilution factor:	100
Other given operational conditions affecting environmental exposure	Not specified	

Risk Management Measures

Conditions and measures related to sewage treatment plant	Assumed domestic sewage treatment plant flow (m³/d):	2000
Conditions and measures related to external treatment of waste for disposal	Not applicable	
Conditions and measures related to external recovery of waste	Not applicable	

3. Exposure estimation and reference to its source

3.1. Health

Information for contributing exposure scenario		
2.1.1	AISE Reach Exposure Assessment Consumer Tool (REACT), The ConsExpo model has been used to estimate consumer exposures unless otherwise indicated, ConsExpo v4.1	
2.1.2	AISE Reach Exposure Assessment Consumer Tool (REACT), The ConsExpo model has been used to estimate consumer exposures unless otherwise indicated	
2.1.3	The ConsExpo model has been used to estimate consumer exposures unless otherwise indicated, ConsExpo v4.1	
2.1.4	The ConsExpo model has been used to estimate consumer exposures unless otherwise indicated, ConsExpo v4.1	
2.1.5	The ConsExpo model has been used to estimate consumer exposures unless otherwise indicated, ConsExpo v4.1	
2.1.6	The ConsExpo model has been used to estimate consumer exposures unless otherwise indicated, ConsExpo v4.1	

3.2. Environment

Information for contributing exposure scenario		
2.2	Used EUSES model	

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

4.1. Health

Guidance - Health	Predicted exposures are not expected to exceed the applicable consumer reference values when the operational conditions/risk management measures given in section 2 are implemented
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4.2. Environment

Guidance - Environment	Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels
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