


SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006		
SALICYLIC ACID PHARMA GRADE		
Revision: 6.00 EU (EN)	Issuing date: 01.11.2011	

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name : SALICYLIC ACID PHARMA GRADE
CAS-No. : 69-72-7
REACH : Registration number : 01-2119486984-17-0000

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

Uses of the Substance/Mixture : Specific use(s): Industrial Manufacturing (all), Intermediate, Pharmaceuticals, Cosmetics, personal care products, Mining, (without offshore industries), Air care products, Polishes and wax blends, Washing and cleaning products (including solvent based products)

Details of the supplier of the safety data sheet

Company : NOVACYL
29 avenue Joannès Masset
69009 LYON - FRANCE
Tel : +33 (0)4 26 99 18 00

Emergency telephone number : MULTILINGUAL EMERGENCY NUMBER (24/7)
Global Response Access Code NOVACYL : 333580
Europe : +1-760-476-3961
Asia Pacific : +1-760-476-3960
Middle East & Africa : +1-760-476-3959
US, Canada, Mexico : +1-866-519-4752
America (other countries) : +1-760-476-3962

E-mail address : information.fds@novacap.eu

2. HAZARDS IDENTIFICATION

Classification

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Oral, Category 4 H302: Harmful if swallowed.
Serious eye damage, Category 1 H318: Causes serious eye damage.

Classification (67/548/EEC,1999/45/EC)

Xn: Harmful R22: Harmful if swallowed.
Xi: Irritant R41: Risk of serious damage to eyes.

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Label elements

Hazardous products which must be listed on the label:

- 69-72-7 salicylic acid

REGULATION (EC) No 1272/2008

Pictogram



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statements

: **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P330 Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification


Slightly irritating to the skin.
Combustible solid.
Divided solid. May form explosive dust-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

CAS-No. : 69-72-7

EINECS-No. : 200-712-3

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Information on Components and Impurities

Chemical Name	Identification number	Classification 67/548/EEC	Classification REGULATION (EC) No 1272/2008	Concentration [%]
salicylic acid	CAS-No. : 69-72-7 EINECS-No. : 200-712-3 self classification	Xn; R22 Xi; R41	H302 : Acute toxicity , Oral, Category 4 H318 : Eye irritation , Category 1	>= 99

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of necessary first-aid measures

- General advice : Show this safety data sheet to the doctor in attendance.
First aider needs to protect himself.
Place affected clothing in a sealed bag for subsequent decontamination.
- Inhalation : If breathed in, move person into fresh air.
- Skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.
- Ingestion : Do NOT induce vomiting.
Do not give anything to drink.
Consult a physician if necessary.

5. FIREFIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media : Foam
powder
Water spray
- Unsuitable extinguishing media : None known.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Risk of dust explosion.
on heating

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Toxic and flammable vapours are released (explosion hazard).

Advice for firefighters

Special protective equipment for firefighters : Special protective equipment for firefighters
Self-contained breathing apparatus (EN 133)

Specific fire fighting methods : Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid contact with the skin and the eyes.
Do not breathe dust.
For further information refer to section 8 "Exposure controls/personal protection".
Boots
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Signal word
Stop leak if safe to do so.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Methods for Cleaning or Taking Up

Recovery : Keep in properly labelled containers.
Keep in suitable, closed containers for disposal.

Decontamination/cleaning : Decontaminate and wash the floor with:
sodium hydroxide (2 to 5%).
Wash off with plenty of water.
Recover the cleaning water for subsequent disposal.

Disposal : Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

Handling

Technical measures : Electrical bonding of pneumatic conveyor.
Earth the equipment.
Blanket with inert gas.

Advice on safe handling and usage : Protect from moisture.
Avoid dust formation.
Provide adequate ventilation.
Do not get in eyes or mouth or on skin.

Storage

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Technical Measures for storage : The floor of the depot should be impermeable and designed to form a water-tight basin.
Local ventilation required when opening the packaging.

Storage conditions

Recommended : Protect against light.
Keep away from open flames, hot surfaces and sources of ignition.
Keep container tightly closed.
Protect from moisture.

Incompatible products : Alkalis and caustic products.
Oxidizing materials.

Packaging Measures

: Store in original container., Flexible container lined with a plastic film., Paper bag lined with a plastic film.

Packaging materials - Recommended : Stainless steel, Plastic materials (polyethylene), Polypropylene

Packaging materials - To be avoided : Steel

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

Product name	Population	Route of exposure	Potential health effects	Reference period	Value	Note
salicylic acid	Workers	Inhalation	Acute effects, Local effects		3 mg/m3	
		Skin contact	Chronic effects, Systemic effect.		2 mg/kg bw/day	
		Inhalation	Chronic effects, Systemic effect.		16 mg/m3	
	Consumers	Inhalation	Chronic effects, Local effects		1 mg/m3	
		Ingestion	Acute effects, Systemic effect.		4 mg/kg bw/day	
			Chronic effects, Systemic effect.		1 mg/kg bw/day	
		Inhalation	Chronic effects, Systemic effect.		4 mg/m3	
		Ingestion	Chronic effects, Systemic effect.		1 mg/kg bw/day	
		Inhalation	Chronic effects, Local effects		0,2 mg/m3	

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Predicted No Effect Concentration (PNEC)

Product name	Compartment	Value	Remarks
salicylic acid	Fresh water	0,20 mg/l	
	Marine water	0,020 mg/l	
	Fresh water sediment	1,42 mg/kg (dw)	
	Marine sediment	0,14 mg/kg (dw)	
	Soil	0,17 mg/kg (dw)	
	STP	162 mg/l	

Control measures

Engineering measures : Dust must be extracted directly at the point of origin.

Personal protective equipment

Respiratory protection : Use a respirator with an approved filter if a risk assessment indicates this is necessary.
Handling product in bulk:
Respirator with a particle filter (EN 143)

Hand protection : Where there is a risk of contact with hands, use appropriate gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Protective suit

Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use clean, well-maintained personal protection equipment.
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.

Protective measures : The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.

General advice : Do not allow uncontrolled discharge of product into the environment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	: Crystalline powder Needles
Physical state	: solid
Colour	: white colourless
Odour	: none to very slight
Odour Threshold	: no data available

Safety data

pH	: 2,4 at 2 % (m/v) (aqueous suspension)
Melting point/range	: 157 - 160 °C
Boiling point/boiling range	: 256 °C at 1.013 hPa
Sublimation point	: 76 °C
Flash point	: 157 °C closed cup
Flammability (solid, gas)	: The product is not flammable. Method: UN N.1 method
Autoignition temperature	: Not applicable solid for which the melting point is < 160 °C.
Oxidizing properties	: Not considered as oxidizing, Structure-activity relationship (SAR)
Water solubility	: 2 g/l at 20 °C
Solubility in other solvents	: Diethylether soluble Acetone soluble Ethanol soluble Chloroform soluble
Partition coefficient: n-octanol/water	: log Pow: ca. 2
Vapour pressure	: 0,0002 hPa at 25 °C
Evaporation rate	: no data available
Relative vapour density	: no data available
Density	: 1,44 g/cm ³ at 20 °C

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Bulk density	: 700 - 800 kg/m ³ Tamped product
	400 - 500 kg/m ³ loose
Oxidation/Reduction Potential	: no data available
Viscosity, dynamic	: not applicable, solid
Viscosity, kinematic	: not applicable, solid
Explosive properties	: no data available
Thermal decomposition	: 230 °C Heating rate: 2 K/min
Dust explosion constant	: 216 m.bar/s
Minimum ignition concentration	: 30 g/m ³
Minimum ignition energy	: 3 - 10 mJ Method: modified Hartmann tube - MIKE 3
Minimum ignition temperature	: 340 °C
Lower explosion limit	: not applicable, solid
Upper explosion limit	: not applicable, solid
Molecular Weight	: 138,12 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	: Stable at room temperature. Stable under recommended storage conditions.
Hazardous reactions	
Conditions to avoid	: Decomposes on heating. Risk of dust ignition in air at concentrations greater than 30 g/m ³ .
Materials to avoid	: Alkalis and caustic products. Oxidizing materials.
Decomposition products	: At high temperatures releases: flammable vapours which may generate fire or explosion hazards On combustion or on thermal decomposition (pyrolysis) releases: toxic vapours. (Carbon oxides (CO + CO ₂)). (Phenol).

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity : LD50 : 891 mg/kg - rat , males
Unpublished internal reports

Acute inhalation toxicity : LC50 - 1 h : > 0,9 mg/l - rat
Dust
Unpublished internal reports

Acute dermal toxicity : LD50 : > 2.000 mg/kg - rat
Published data

Acute toxicity (other routes of administration) : no data available

Aspiration toxicity : not applicable

Skin corrosion/irritation

Skin irritation : Not irritating to rabbits on cutaneous application.
Unpublished internal reports
May cause slight temporary irritation

Serious eye damage/eye irritation

Eye irritation : rabbit
Risk of serious damage to eyes.
Severe eye irritation
Published data

Respiratory or skin sensitization

Sensitisation : Local lymph node assay - mouse
not sensitising
Published data

Humans
not sensitising
Diluted product
Published data

Repeated dose toxicity

Repeated dose toxicity : Oral exposure 4 Months - rat
NOAEL: 45,4 mg/kg
Published data
Information given is based on data obtained from similar substances.

Oral exposure 24 Months - rat
NOAEL: 45,4 mg/kg
Published data
Information given is based on data obtained from similar substances.

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STOT

STOT - single exposure : Toxicology Assessment:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Toxicology Assessment:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Carcinogenicity

Carcinogenicity : No carcinogenic effects have been observed

Mutagenicity

Genotoxicity in vitro : In vitro tests did not show mutagenic effects
Published data

Genotoxicity in vivo : In vivo tests did not show mutagenic effects
Published data

Reproductive toxicity

Reproductive toxicity : Fertility study 3 generations - rat
NOEL parent: 250 mg/kg
NOEL F1: 75 mg/kg
NOEL F2: 75 mg/kg
Published data
Information given is based on data obtained from similar substances.

Developmental Toxicity / Teratogenicity : rat
Oral exposure
NOAEL teratogenicity: 50 mg/kg
NOAEL maternal: 50 mg/kg

Published data

Experience with human exposure

Experience with human exposure : Inhalation : May cause respiratory irritation.
Dust
Unpublished reports

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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Aquatic Compartment (including sediment)

- Toxicity to fish : LC50 - 96 h : 1.380 mg/l - Pimephales promelas (fathead minnow)
flow-through test
Test substance: Sodium salts
Measured concentration.
Published data
- Toxicity to daphnia and other aquatic invertebrates. : EC50 - 48 h : 870 mg/l - Daphnia magna (Water flea)
static test
Published data
- Toxicity to aquatic plants : EC50 - 72 h : > 100 mg/l - Desmodesmus subspicatus (green algae)
Biomass
Published data
- Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity) : NOEC: 10 mg/l - 21 Days - Daphnia magna (Water flea)
Reproduction Test Measured concentration.
Published data

Persistence and degradability

Biodegradability

- Biodegradability : Ultimate aerobic biodegradability
Readily biodegradable
100 % - 14 Days
Published data

Bioaccumulation

- Partition coefficient: n-octanol/water : Not potentially bioaccumulable
Published data

Mobility

- Distribution among environmental compartments : Mobile in soils
Unpublished internal reports
- Known distribution to environmental compartments : Ultimate destination of the product : Water

PBT and vPvB assessment

- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

- Environment assessment : Not classified as Dangerous for the Environment, according to EC criteria
Not classified as Dangerous for the Environment, according to REGULATION (EC) No 1272/2008

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13. DISPOSAL CONSIDERATIONS

Product Disposal

Prohibition : Do not let product enter drains.

Advice on cleaning and disposal of packaging

Advice : Completely empty the packaging prior to decontamination.

Reason for waste disposal : Incinerate bags and flexible containers.

Other data : Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR
not regulated

RID
not regulated

IMDG
not regulated

IATA
not regulated

ADN / ADNR
not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.


15. REGULATORY INFORMATION

Chemical Safety Assessment : A Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.

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Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H318	Causes serious eye damage.

Full text of P-Statements referred to under sections 2 and 3.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P330	Rinse mouth.
P501	Dispose of contents/ container to an approved waste disposal plant.

Further information

Further information : This sheet was updated (refer to the date at the top of this page).
Subheadings and text which have been modified since the previous version are indicated with two vertical bars.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in an other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

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Annex

ES	Short title of the Exposure Scenario
1	Use as an intermediate
2	Use for the manufacture of resins
3	Use for the separation of salts
4	Formulation & (re)packing of substances and mixtures
5	Consumer use, Cosmetics, personal care products
6	Use in Cleaning Agents, Professional use
7	Use in Cleaning Agents, Consumer use

ES1 : Use as an intermediate

1. Scenario description

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU 3, SU8, SU9: Industrial uses: Uses of substances as such or in preparations at industrial sites, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
Product category	: PC19: Intermediate
Process category	: PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15: Use as laboratory reagent
Environmental release category	: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

2. Conditions of use affecting exposure

2.1 Contributing scenario controlling environmental exposure for: ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

Amount used

Maximum daily local emission to waste water : 27,6 kg


Environmental factors

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous release.
Number of emission days per year : 300

Conditions and measures related to sewage treatment plant

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Type of Sewage Treatment Plant : Municipal sewage treatment plant
Flow rate of sewage treatment plant : 2.000 m3/day
effluent
Percentage removed from waste water : 87,4 %
Sludge Treatment : Do not apply industrial sludge to natural soils., Sludge should be incinerated, contained or reclaimed.

Conditions and measures related to external treatment of waste for disposal

Waste treatment : External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with applicable local and/or national regulations.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Transfer via enclosed lines.
Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 95 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use


Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Ensure samples are obtained under containment or extract ventilation., Provide enhanced general ventilation by mechanical means.

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Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.4 Contributing scenario controlling worker exposure for: PROC15, Use as laboratory reagent, Solid substance

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Handle in a fume cupboard or under extract ventilation. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.5 Contributing scenario controlling worker exposure for: PROC2, PROC3 Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation)

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use


Exposure duration : 15 min - 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor, Outdoor

Technical conditions and measures

Handle substance within a closed system.
Ensure operation is undertaken outdoors. (Effectiveness (of a measure): 30 %)
Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

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Organisational measures to prevent /limit releases, dispersion and exposure

Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day.,
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC6a	Local PEC	Fresh water		0,18 mg/L	0,9
		Fresh water sediment		1,27 mg/kg (dw)	0,9
		STP		1,74 mg/L	0,011
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024

Human Health

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
PROC8b	Indoor, Solid substance, 15 min - 1hour, with local exhaust ventilation	Inhalation - Acute - local effects	0,25 mg/m3	0,08
		Dermal - Long-term - systemic effects	0,069 mg/kg bw/day	0,03
		Inhalation - Long-term – local effects	0,125 mg/m3	0,125
		Combined routes - Long term effects		0,16
	Indoor, Solid substance, <15 min	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,35
		Inhalation - Acute - local effects	0,064 mg/m3	0,02
		Inhalation - Long-term – local effects	0,032 mg/m3	0,032
		Combined routes - Long term effects		0,38
PROC15	Indoor, Solid substance, <15 min, with local exhaust ventilation	Inhalation - Acute - local effects	0,1 mg/m3	0,03
		Dermal - Long-term - systemic effects	0,003 mg/kg bw/day	0,002
		Inhalation - Long-term – local effects	0,05 mg/m3	0,05
		Combined routes - Long term effects		0,05
PROC2	Outdoor, Liquid mixture, > 25 %, 15 min - 1hour	Dermal - Long-term - systemic effects	0,14 mg/kg bw/day	0,07
		Inhalation - Long-term - systemic effects	0,81 mg/m3	0,05
		Combined routes - Long term effects		0,12
	Indoor, Liquid mixture, > 25 %, 15 min - 1hour	Dermal - Long-term - systemic effects	0,14 mg/kg bw/day	0,07
		Inhalation - Long-term - systemic effects	1,15 mg/m3	0,07

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		Combined routes - Long term effects		0,14
PROC3	Outdoor, Liquid mixture, > 25 %, 15 min - 1hour	Dermal - Long-term - systemic effects	0,03 mg/kg bw/day	0,02
		Inhalation - Long-term - systemic effects	2,42 mg/m3	0,15
		Combined routes - Long term effects		0,17
	Indoor, Liquid mixture, > 25 %, 15 min - 1hour	Dermal - Long-term - systemic effects	0,03 mg/kg bw/day	0,02
		Inhalation - Long-term - systemic effects	3,45 mg/m3	0,22
		Combined routes - Long term effects		0,24


RCR = Risk characterisation ratio

ERC6a	Exposure Assessment Method : EUSES
PROC8b	Exposure Assessment Method : ECETOC TRA
PROC15	Exposure Assessment Method : ECETOC TRA
PROC2	Exposure Assessment Method : ECETOC TRA
PROC3	Exposure Assessment Method : ECETOC TRA

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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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ES2 : Use for the manufacture of resins

1. Scenario description

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU 3, SU8, SU9: Industrial uses: Uses of substances as such or in preparations at industrial sites, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
Process category	: PROC3: Use in closed batch process (synthesis or formulation) PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) : Powdered mixture : Liquid mixture PROC15: Use as laboratory reagent : Powdered substance : Liquid substance
Environmental release category	: ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

2. Conditions of use affecting exposure

2.1 Contributing scenario controlling environmental exposure for: ERC6d Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

Amount used

Local daily emission to waste water : 0,454 kg

Environmental factors

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous release.
Number of emission days per year : 100

Conditions and measures related to sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant
Flow rate of sewage treatment plant : 2.000 m3/day effluent
Percentage removed from waste water : 87,4 %


Conditions and measures related to external treatment of waste for disposal

Waste treatment : External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with applicable local and/or national regulations.

2.2 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation)

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Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : > 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Use in contained batch processes

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Transfer via enclosed lines.
Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 95 %)


Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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

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Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Ensure samples are obtained under containment or extract ventilation., Provide enhanced general ventilation by mechanical means.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Ensure samples are obtained under containment or extract ventilation.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.


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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.6 Contributing scenario controlling worker exposure for: PROC15, Use as laboratory reagent, Solid substance

Product characteristics

Concentration of the Substance in : Covers the percentage of the substance in the product up to 100 %

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Mixture/Article (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Handle in a fume cupboard or under extract ventilation. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.7 Contributing scenario controlling worker exposure for: PROC15, Use as laboratory reagent, Liquid mixture

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Handle in a fume cupboard or under extract ventilation. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC6d	Local PEC	Fresh water		0,0083 mg/L	0,041
		Fresh water sediment		0,0585 mg/kg (dw)	0,041
		STP		0,029 mg/L	< 0,001
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024

Human Health

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
PROC3	Indoor, Liquid mixture, 1-5 %	Dermal - Long-term - systemic effects	0,03 mg/kg bw/day	0,02
		Inhalation - Long-term - systemic effects	3,45 mg/m3	0,22
		Combined routes - Long term effects		0,24
PROC8b	Indoor, Solid substance, 15 min - 1hour, with local exhaust ventilation	Inhalation - Acute - local effects	0,25 mg/m3	0,08
		Dermal - Long-term - systemic effects	0,069 mg/kg bw/day	0,03
		Inhalation - Long-term – local effects	0,125 mg/m3	0,125
		Combined routes - Long term effects		0,16
	Indoor, Solid substance, <15 min	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,35
		Inhalation - Acute - local effects	0,064 mg/m3	0,02
		Inhalation - Long-term – local effects	0,032 mg/m3	0,032
		Combined routes - Long term effects		0,38
	Indoor, Liquid mixture, 1-5 %, <15 min	Inhalation - Acute - local effects	1,15 mg/m3	0,38
		Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,35
		Inhalation - Long-term - systemic effects	0,58 mg/m3	0,04
		Combined routes - Long term effects		0,39
PROC15	Indoor, Solid substance, <15 min, with local exhaust ventilation	Inhalation - Acute - local effects	0,1 mg/m3	0,03

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		Dermal - Long-term - systemic effects	0,003 mg/kg bw/day	0,002
		Inhalation - Long-term – local effects	0,05 mg/m3	0,05
		Combined routes - Long term effects		0,05
	Indoor, Liquid mixture, 1-5 %, <15 min, with local exhaust ventilation	Inhalation - Acute - local effects	0,12 mg/m3	0,04
		Dermal - Long-term - systemic effects	0,003 mg/kg bw/day	0,002
		Inhalation - Long-term - systemic effects	0,058 mg/m3	0,004
		Combined routes - Long term effects		0,006

RCR = Risk characterisation ratio

ERC6d Exposure Assessment Method : EUSES

PROC3 Exposure Assessment Method : ECETOC TRA


PROC8b Exposure Assessment Method : ECETOC TRA

PROC15 Exposure Assessment Method : ECETOC TRA

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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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ES3 : Use for the separation of salts

1. Scenario description

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU2: Mining, (including offshore industries)
Process category	: PROC1: Use in closed process, no likelihood of exposure 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
Environmental release category	: ERC8d: Wide dispersive outdoor use of processing aids in open systems

2. Conditions of use affecting exposure

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

Amount used

Local daily emission to waste water : 3,89 kg

Environmental factors

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous release.
Number of emission days per year : 20

Conditions and measures related to sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant
Flow rate of sewage treatment plant : 2.000 m3/day effluent
Percentage removed from waste water : 87,4 %

Conditions and measures related to external treatment of waste for disposal

Waste treatment : External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste


Recovery Methods : External recovery and recycling of waste should comply with applicable local and/or national regulations.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

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Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Transfer via enclosed lines.

Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 95 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)

Use suitable eye protection.

2.3 Contributing scenario controlling worker exposure for: PROC1, PROC2 Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : 1 - 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Handle substance within a closed system.


Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)

Use suitable eye protection.

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC8d	Local PEC	Fresh water		0,03 mg/L	0,15
		Fresh water sediment		0,21 mg/kg (dw)	0,15
		STP		0,25 mg/L	0,0015
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024

Human Health

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
PROC8b	Indoor, Solid substance, <15 min, with local exhaust ventilation	Inhalation - Acute - local effects	0,25 mg/m ³	0,083
		Dermal - Long-term - systemic effects	0,069 mg/kg bw/day	0,034
		Inhalation - Long-term – local effects	0,125 mg/m ³	0,125
		Combined routes - Long term effects		0,16
PROC1	Indoor, Solid substance, 1 - 4 h	Dermal - Long-term - systemic effects	0,34 mg/kg bw/day	0,17
		Inhalation - Long-term – local effects	0,006 mg/m ³	0,006
		Combined routes - Long term effects		0,18
PROC2	Indoor, Solid substance	Dermal - Long-term - systemic effects	0,14 mg/kg bw/day	0,069
		Inhalation - Long-term – local effects	0,6 mg/m ³	0,6
		Combined routes - Long term effects		0,67


RCR = Risk characterisation ratio

ERC8d Exposure Assessment Method : EUSES

PROC8b Exposure Assessment Method : ECETOC TRA

PROC1 Exposure Assessment Method : ECETOC TRA


PROC2 Exposure Assessment Method : ECETOC TRA

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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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ES4 : Formulation & (re)packing of substances and mixtures

1. Scenario description

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU 10: Formulation
Process category	: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15: Use as laboratory reagent
Environmental release category	: ERC2: Formulation of preparations

2. Conditions of use affecting exposure

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

Amount used

Local daily emission to waste water : 25,9 kg

Environmental factors

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous release.
Number of emission days per year : 100

Conditions and measures related to sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant
Flow rate of sewage treatment plant : 2.000 m3/day effluent
Percentage removed from waste water : 87,4 %

Conditions and measures related to external treatment of waste for disposal

Waste treatment : External treatment and disposal of waste should comply with applicable local and/or national regulations.

Conditions and measures related to external recovery of waste


Recovery Methods : External recovery and recycling of waste should comply with applicable local and/or national regulations.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

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Exposure duration : > 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Use in contained batch processes
Provide enhanced general ventilation by mechanical means.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Transfer via enclosed lines.
Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 95 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.


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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.4 Contributing scenario controlling worker exposure for: PROC8b, PROC9 Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

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Frequency and duration of use

Exposure duration : > 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Transfer via enclosed lines.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)

Use suitable eye protection.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Ensure samples are obtained under containment or extract ventilation., Provide enhanced general ventilation by mechanical means.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)

Use suitable eye protection.

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


Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.

Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : < 15 min

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Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Ensure samples are obtained under containment or extract ventilation.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.7 Contributing scenario controlling worker exposure for: PROC15, Use as laboratory reagent, Solid substance

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, high dustiness

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Handle in a fume cupboard or under extract ventilation. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid dust formation., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

2.8 Contributing scenario controlling worker exposure for: PROC15, Use as laboratory reagent, Liquid mixture

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture


Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

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Handle in a fume cupboard or under extract ventilation. (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC2	PEC	Fresh water		0,17 mg/L	0,85
		Fresh water sediment		1,2 mg/kg (dw)	0,85
		STP		1,64 mg/L	0,01
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024

Human Health

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
PROC5	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	1,37 mg/kg bw/day	0,69
		Inhalation - Long-term - systemic effects	0,28 mg/m3	0,018
		Combined routes - Long term effects		0,7
PROC8b	Indoor, Solid substance, 15 min - 1hour, with local exhaust ventilation	Inhalation - Acute - local effects	0,25 mg/m3	0,08
		Dermal - Long-term - systemic effects	0,069 mg/kg bw/day	0,03
		Inhalation - Long-term – local effects	0,125 mg/m3	0,125
		Combined routes - Long term effects		0,16
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	5,76 mg/m3	0,36
		Combined routes - Long term effects		0,7
PROC9	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	5,76 mg/m3	0,36
		Combined routes - Long term effects		0,7
	Indoor, Solid substance, <15 min	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,35
		Inhalation - Acute - local effects	0,064 mg/m3	0,02
		Inhalation - Long-term – local effects	0,032 mg/m3	0,032

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		Combined routes - Long term effects		0,38
	Indoor, Liquid mixture, 1-5 %, <15 min	Inhalation - Acute - local effects	1,15 mg/m3	0,38
		Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,35
		Inhalation - Long-term - systemic effects	0,58 mg/m3	0,04
		Combined routes - Long term effects		0,39
PROC15	Indoor, Solid substance, <15 min, with local exhaust ventilation	Inhalation - Acute - local effects	0,1 mg/m3	0,03
		Dermal - Long-term - systemic effects	0,003 mg/kg bw/day	0,002
		Inhalation - Long-term - local effects	0,05 mg/m3	0,05
		Combined routes - Long term effects		0,05
	Indoor, Liquid mixture, 1-5 %, <15 min, with local exhaust ventilation	Inhalation - Acute - local effects	0,12 mg/m3	0,04
		Dermal - Long-term - systemic effects	0,003 mg/kg bw/day	0,002
		Inhalation - Long-term - systemic effects	0,058 mg/m3	0,004
		Combined routes - Long term effects		0,006

RCR = Risk characterisation ratio

ERC2 Exposure Assessment Method : EUSES


PROC5 Exposure Assessment Method : Dermal exposure, ECETOC TRA, Inhalation exposure, ART (Advanced Reach Tool)

PROC8b Exposure Assessment Method : ECETOC TRA

PROC9 Exposure Assessment Method : Dermal exposure, ECETOC TRA

Exposure Assessment Method : Inhalation exposure, ECETOC TRA, or, ART (Advanced Reach Tool)


PROC15 Exposure Assessment Method : ECETOC TRA

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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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ES5 : Consumer use, Cosmetics, personal care products

1. Scenario description

Main User Groups	:	SU 21: Consumer uses: Private households (= general public = consumers)
Sectors of end-use	:	SU 21: Consumer uses: Private households (= general public = consumers)
Product category	:	PC39: Cosmetics, personal care products
Environmental release category	:	ERC8a: Wide dispersive indoor use of processing aids in open systems

2. Conditions of use affecting exposure

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

For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.

Amount used

Local daily emission to waste water	:	0,203 kg
Fraction of Regional tonnage used locally:	:	0,1

Environmental factors


Dilution Factor (River)	:	10
Dilution Factor (Coastal Areas)	:	100

Other given operational conditions affecting environmental exposure

Continuous release.		
Number of emission days per year	:	365

Conditions and measures related to sewage treatment plant

Type of Sewage Treatment Plant	:	Municipal sewage treatment plant
Flow rate of sewage treatment plant effluent	:	2.000 m3/day
Percentage removed from waste water	:	87,4 %

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC8a	Local PEC	Fresh water		0,0067 mg/L	0,033
		Fresh water sediment		0,047 mg/kg (dw)	0,033
		STP		0,013 mg/L	< 0,001
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024


RCR = Risk characterisation ratio

ERC8a Exposure Assessment Method : EUSES

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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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ES6 : Use in Cleaning Agents, Professional use

1. Scenario description

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process category	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
Environmental release category	: ERC8a: Wide dispersive indoor use of processing aids in open systems

2. Conditions of use affecting exposure

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

Amount used

Local daily emission to waste water	: 0,068 kg
Fraction of Regional tonnage used locally:	: 0,1

Environmental factors

Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure


Continuous release.	
Number of emission days per year	: 365

Conditions and measures related to sewage treatment plant

Type of Sewage Treatment Plant	: Municipal sewage treatment plant
Flow rate of sewage treatment plant effluent	: 2.000 m3/day
Percentage removed from waste water	: 87,4 %

Conditions and measures related to external treatment of waste for disposal

Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
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Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with applicable local and/or national regulations.

2.2 Contributing scenario controlling worker exposure for: PROC8a, PROC8b, PROC9 Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : > 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor, Outdoor

Technical conditions and measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. (Effectiveness (of a measure): 30 %) or, Ensure operation is undertaken outdoors.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
Use suitable eye protection.

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

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : > 4 h

Other operational conditions affecting workers exposure


Outdoor / Indoor : Indoor, Outdoor

Technical conditions and measures

Handle substance within a closed system.

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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2.4 Contributing scenario controlling worker exposure for: PROC2, PROC3, PROC4 Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
 Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : > 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor, Outdoor

Technical conditions and measures

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour)., or
 Ensure operation is undertaken outdoors. (Effectiveness (of a measure): 30 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day.,
 Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
 Use suitable eye protection.

2.5 Contributing scenario controlling worker exposure for: PROC10, PROC13 Roller application or brushing, Treatment of articles by dipping and pouring

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
 Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : > 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor, Outdoor

Technical conditions and measures


Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour)., or
 Ensure operation is undertaken outdoors. (Effectiveness (of a measure): 30 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
 Use suitable eye protection.

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2.6 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 5%.
 Physical Form (at time of use) : Liquid mixture

Frequency and duration of use

Exposure duration : 1 - 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor, Outdoor

Technical conditions and measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan., or
 Ensure operation is undertaken outdoors. (Effectiveness (of a measure): 30 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing., Avoid contact with eyes., Minimization of manual phases, Clean equipment and the work area every day., Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

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

Wear suitable gloves tested to EN374. (Effectiveness (of a measure): 90 %)
 Use suitable eye protection.

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC8a	Local PEC	Fresh water		0,0058 mg/L	0,029
		Fresh water sediment		0,041 mg/kg (dw)	0,029
		STP		0,0043 mg/L	< 0,001
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024

Human Health

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
PROC8a	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	1,37 mg/kg bw/day	0,69
		Inhalation - Long-term - systemic effects	0,021 mg/m3	0,001
		Combined routes - Long term effects		0,69
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	1,37 mg/kg bw/day	0,69
		Inhalation - Long-term - systemic effects	0,016 mg/m3	0,001
		Combined routes - Long term effects		0,69
PROC8b	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	8,06 mg/m3	0,5
		Combined routes - Long term effects		0,84
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	0,0016 mg/m3	0,0001
		Combined routes - Long term effects		0,34
PROC9	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	8,06 mg/m3	0,5
		Combined routes - Long term effects		0,84
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	0,0006 mg/m3	0,00003

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		Combined routes - Long term effects		0,34
PROC1	Outdoor, Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,34 mg/kg bw/day	0,17
		Inhalation - Long-term - systemic effects	0,01 mg/m3	0,001
		Combined routes - Long term effects		0,17
PROC2	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,14 mg/kg bw/day	0,07
		Inhalation - Long-term - systemic effects	4,03 mg/m3	0,25
		Combined routes - Long term effects		0,32
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,14 mg/kg bw/day	0,07
		Inhalation - Long-term - systemic effects	5,76 mg/m3	0,36
		Combined routes - Long term effects		0,43
PROC3	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,03 mg/kg bw/day	0,02
		Inhalation - Long-term - systemic effects	2,42 mg/m3	0,15
		Combined routes - Long term effects		0,17
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,03 mg/kg bw/day	0,02
		Inhalation - Long-term - systemic effects	3,45 mg/m3	0,22
		Combined routes - Long term effects		0,24
PROC4	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	8,06 mg/m3	0,5
		Combined routes - Long term effects		0,84
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,69 mg/kg bw/day	0,34
		Inhalation - Long-term - systemic effects	0,55 mg/m3	0,03
		Combined routes - Long term effects		0,37
PROC10	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,55 mg/kg bw/day	0,27
		Inhalation - Long-term - systemic effects	0,063 mg/m3	0,004
		Combined routes - Long term effects		0,27
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,55 mg/kg bw/day	0,27
		Inhalation - Long-term - systemic effects	0,18 mg/m3	0,011
		Combined routes - Long term effects		0,28
PROC13	Outdoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,27 mg/kg bw/day	0,14
		Inhalation - Long-term - systemic effects	8,06 mg/m3	0,5

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		Combined routes - Long term effects		0,64
	Indoor, Liquid mixture, 1-5 %, > 4h	Dermal - Long-term - systemic effects	0,27 mg/kg bw/day	0,14
		Inhalation - Long-term - systemic effects	11,51 mg/m3	0,72
		Combined routes - Long term effects		0,86
PROC11	Outdoor, Liquid mixture, 1-5 %, 1 - 4 h	Dermal - Long-term - systemic effects	1,29 mg/kg bw/day	0,64
		Inhalation - Long-term - systemic effects	0,57 mg/m3	0,036
		Combined routes - Long term effects		0,68
	Indoor, Liquid mixture, 1-5 %, 1 - 4 h	Dermal - Long-term - systemic effects	1,29 mg/kg bw/day	0,64
		Inhalation - Long-term - systemic effects	1,6 mg/m3	0,1
		Combined routes - Long term effects		0,74

RCR = Risk characterisation ratio

ERC8a Exposure Assessment Method : EUSES

PROC8a Exposure Assessment Method : Dermal exposure, ECETOC TRA, Inhalation exposure, ART (Advanced Reach Tool)

PROC8b Exposure Assessment Method : Dermal exposure, ECETOC TRA

Exposure Assessment Method : Inhalation exposure, ECETOC TRA, or, ART (Advanced Reach Tool)

PROC9 Exposure Assessment Method : Dermal exposure, ECETOC TRA

Exposure Assessment Method : Inhalation exposure, ECETOC TRA, or, ART (Advanced Reach Tool)


PROC1 Exposure Assessment Method : ECETOC TRA

PROC2 Exposure Assessment Method : ECETOC TRA

PROC3 Exposure Assessment Method : ECETOC TRA

PROC4 Exposure Assessment Method : Dermal exposure, ECETOC TRA

Exposure Assessment Method : Inhalation exposure, ECETOC TRA, or, ART (Advanced Reach Tool)

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- PROC10 Exposure Assessment Method : Dermal exposure, ECETOC TRA, Inhalation exposure, ART (Advanced Reach Tool)
- PROC13 Exposure Assessment Method : ECETOC TRA
- PROC11 Exposure Assessment Method : Dermal exposure, ECETOC TRA, Inhalation exposure, ART (Advanced Reach Tool)

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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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ES7 : Use in Cleaning Agents, Consumer use

1. Scenario description

Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)
Sectors of end-use	: SU 21: Private households (=general public = consumers)
Product category	: PC3: Air care products PC31: Polishes and wax blends PC35: Washing and cleaning products (including solvent based products)
Environmental release category	: ERC8a: Wide dispersive indoor use of processing aids in open systems

2. Conditions of use affecting exposure

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

Amount used

Local daily emission to waste water	: 0,068 kg
Fraction of Regional tonnage used locally:	: 0,1

Environmental factors

Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Continuous release.	
Number of emission days per year	: 365

Conditions and measures related to sewage treatment plant

Type of Sewage Treatment Plant	: Municipal sewage treatment plant
Flow rate of sewage treatment plant effluent	: 2.000 m3/day
Percentage removed from waste water	: 87,4 %

2.2 Contributing scenario controlling consumer exposure for: PC3 Air care products

Product characteristics

Physical Form (at time of use)	: Liquid mixture
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Amount used

Amount per Application	: 0,007 kg
Remarks	: Air care, instant action (aerosol sprays)
Amount per Application	: 0,05 kg
Remarks	: Air care, continuous action (solid and liquid)

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Frequency and duration of use

Duration of exposure by events : 0,3 h
Remarks : Air care, instant action (aerosol sprays)
Duration of exposure by events : 8 h
Remarks : Air care, continuous action (solid and liquid)
Frequency of use : 1
Remarks : Air care, continuous action (solid and liquid)

Human factors not influenced by risk management

Population potentially exposed, Adults : 70 kg
Dermal exposure : Fingertips (35,7cm²)
Remarks : Air care, continuous action (solid and liquid)

Other given operational conditions affecting consumers exposure

Room size : 20 m³

Fraction Released to air : 1
Remarks : Air care, instant action (aerosol sprays)
Fraction Released to air : 0,001
Remarks : Air care, continuous action (solid and liquid)

2.3 Contributing scenario controlling consumer exposure for: PC31 Polishes and wax blends

Product characteristics

Physical Form (at time of use) : Liquid mixture

Amount used

Amount per Application : 0,55 kg
Remarks : Polishes, wax / cream (floor, furniture, shoes)
Amount per Application : 0,135 kg
Remarks : Polishes, spray (furniture, shoes)

Frequency and duration of use

Duration of exposure by events : 4 h

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (420 cm²)
Population potentially exposed, Adults : 70 kg

Other given operational conditions affecting consumers exposure

Room size : 20 m³
Ventilation rate per hour : 1,4

Fraction Released to air : 0,001
Remarks : Polishes, wax / cream (floor, furniture, shoes)
Fraction Released to air : 0,05
Remarks : Polishes, spray (furniture, shoes)

2.4 Contributing scenario controlling consumer exposure for: PC35 Washing and cleaning products (including solvent based products)

Product characteristics

Physical Form (at time of use) : Liquid mixture

Amount used

Amount per Application : 0,05 kg
Remarks : Laundry and dish washing products

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Amount per Application : 0,25 kg
Remarks : Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
Amount per Application : 0,035 kg
Remarks : Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Frequency and duration of use

Duration of exposure by events : 1 h
Remarks : Laundry and dish washing products
Duration of exposure by events : 0,3 h
Remarks : Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
Duration of exposure by events : 4 h
Remarks : Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (420 cm²)
Population potentially exposed, Adults : 70 kg

Other given operational conditions affecting consumers exposure

Room size : 20 m³
Ventilation rate per hour : 1,4
Fraction Released to air : 0,001
Remarks : Laundry and dish washing products
Fraction Released to air : 0,001
Remarks : Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
Fraction Released to air : 0,05
Remarks : Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

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3. Exposure estimation and reference to its source

Environment

Release factor	Value type	Compartment	Specific conditions	Environmental exposure	RCR
ERC8a	Local PEC	Fresh water		0,0058 mg/L	0,029
		Fresh water sediment		0,041 mg/kg (dw)	0,029
		STP		0,0043 mg/L	< 0,001
	Regional PEC	Fresh water		0,0054 mg/L	0,027
		Fresh water sediment		0,035 mg/kg (dw)	0,024

Human Health

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
PC3_1	Indoor, Liquid mixture	Inhalation - Long-term - systemic effects	3,5 mg/m ³	0,88
PC3_2	Indoor, Liquid mixture	Dermal - Long-term - systemic effects	0,102 mg/kg bw/day	0,102
		Inhalation - Long-term - systemic effects	0,05 mg/m ³	0,01
		Combined routes - Long term effects		0,11
PC31_1	Indoor, Liquid mixture	Dermal - Long-term - systemic effects	0,6 mg/kg bw/day	0,6
		Inhalation - Long-term - systemic effects	0,275 mg/m ³	0,07
		Combined routes - Long term effects		0,62
PC31_2	Indoor, Liquid mixture	Dermal - Long-term - systemic effects	0,6 mg/kg bw/day	0,6
		Inhalation - Long-term - systemic effects	3,375 mg/m ³	0,84
		Combined routes - Long term effects		0,87
PC35_1	Indoor, Liquid mixture	Dermal - Long-term - systemic effects	0,6 mg/kg bw/day	0,6
		Inhalation - Long-term - systemic effects	0,025 mg/m ³	0,01
		Combined routes - Long term effects		0,6
PC35_2	Indoor, Liquid mixture	Dermal - Long-term - systemic effects	0,6 mg/kg bw/day	0,6
		Inhalation - Long-term - systemic effects	0,125 mg/m ³	0,03
		Combined routes - Long term effects		0,6
PC35_3	Indoor, Liquid mixture	Dermal - Long-term - systemic effects	0,6 mg/kg bw/day	0,6
		Inhalation - Long-term - systemic effects	0,875 mg/m ³	0,22

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		Combined routes - Long term effects		0,67
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RCR = Risk characterisation ratio

ERC8a	Exposure Assessment Method : EUSES
PC3_1	Exposure Assessment Method : ECETOC TRA
PC3_2	Exposure Assessment Method : ECETOC TRA
PC31_1	Exposure Assessment Method : ECETOC TRA
PC31_2	Exposure Assessment Method : ECETOC TRA
PC35_1	Exposure Assessment Method : ECETOC TRA
PC35_2	Exposure Assessment Method : ECETOC TRA
PC35_3	Exposure Assessment Method : ECETOC TRA

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

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.