

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Salicylic acid

Version	Date of revision:	BL number (safety	Date of last issue: 02.10.2020
3.1	14.06.2023	data sheet):	Date of first issue: 05/23/2017
		300000016981	

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

1.1 Product identifier

Trade name	: Salicylic acid
Product code	: 000000005708390000
REACH registration number	: 01-2119486984-17
Substance name	: salicylic acid
CAS No	: 69-72-7
Index No	: 607-732-00-5
No. EC	: 200-712-3
INCI	: SALICYLIC ACID

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

Use of the substance or mixture	: Medicinal substances, Cosmetic products More information can be found in the safety data sheet (eSDS) on the website.
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1.3 Detailed data on the supplier of the safety data sheet

Firm Ekokoza s.r.o
Fryčovice 297
73945, Fryčovice
eshop@ekokoza.cz
+420605779993

1.4 Telephone number for emergency situations

Toxicology Information Center Na Bojišti 1, 128 21 Praha
Telephone number for urgent situations: +420 224 919 293

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No. 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Reproductive toxicity, Category 2	H361d: Suspected damage to the fetus in the mother's body.

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2.2 Marking elements

Labeling (REGULATION (EC) No. 1272/2008)

Danger warning symbols :



With a signal word : Danger

Standard phrases about danger : H302 Harmful if swallowed.
H318 Causes serious eye damage.
H361d Suspected damage to the fetus in the mother's body.

Instructions for safe handling : **Prevention:**

P201 Obtain special instructions before use.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ safety glasses/ face shield/ hearing protection.

Precautions:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if worn and if they can be removed easily. Continue rinsing. Call a TOXICOLOGICAL INFORMATION CENTER/ doctor immediately.

P308 + P313 IF exposed or suspected: Get medical attention/treatment.

Removal:

P501 Dispose of contents/container in an approved waste disposal facility.

2.3 Other hazards

The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a concentration of 0.1% or higher.

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

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : salicylic acid

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Index No : 607-732-00-5

No. EC : 200-712-3

Chemical essence : One-component substance
organic

Folders

Chemical name	CAS No No. EC	Concentration (%) w/w)	M-factor, SCL, ATE
salicylic acid	69-72-7 200-712-3	>= 90 - <= 100	Estimation of acute toxicity Acute oral toxicity: 891 mg/ kg 891 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid

General instructions : First aiders should pay attention to their own protection and wear the recommended protective clothing. Remove the affected person from the danger area. In case of persistent problems, call a doctor. If the victim is unconscious, place him in a safe position and get medical attention. Never give anything by mouth to an unconscious person. Keep the casualty warm and calm. Present this safety data sheet to the attending physician.

When inhaled : If the victim is unconscious, place him in a safe position and get medical attention. In case of persistent problems, call a doctor. In case of inhalation, remove victim to fresh air. Give oxygen if breathing is difficult.

In contact with skin : In case of contact, immediately rinse the skin with plenty of water and soap.

In contact with eyes : Protect the uninjured eye. Remove contact lenses. Rinse immediately with plenty of water, including under the lids. Open your eyes wide and rinse. Small amounts entering the eyes can cause irreversible damage to the epithelium and blindness. Take the affected person to the hospital immediately. Flush the eyes even during transport to the hospital.

When ingested : Rinse mouth with water. Drink 1 to 2 glasses of water.

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If swallowed, DO NOT induce vomiting unless directed by medical personnel.

Do not serve milk or alcoholic beverages.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Serious eye damage / eye irritation Nausea Nausea Vomiting Diarrhea Dizziness Headaches Convulsions dizziness confusion Circulatory collapse
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Risks	: Blindness
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4.3 Indication of immediate medical attention and special treatment

Treatment	: Decontamination Elementary help Symptomatic treatment. Symptoms of poisoning may appear only after several hours. Necessary supervision of a doctor for at least 48 hours.
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SECTION 5: Firefighting measures

5.1 Fire extinguishers

Suitable extinguishing agents	: Use a stream of water, foam suitable for extinguishing alcohol, powder fire extinguisher or carbon dioxide.
Unsuitable fire extinguishers	: Full flow of water

5.2 Special hazards arising from the substance or mixture

Specific firefighting hazards	: Prevent dust generation; fine dust dispersed in sufficient concentration in the air in the presence of sources of ignition is a possible risk of explosion.
Hazardous combustion products	: See point 10.

5.3 Instructions for firefighters

Special protective equipment for firefighters	: Use full protective clothing and self-contained breathing apparatus.
More information	: Common precautions for chemical fires.

SECTION 6: Accidental release measures

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6.1 Personal protection measures, protective equipment and emergency procedures

Measures for the protection of persons : Use appropriate protective equipment.
Take people to safety.
It is necessary to exclude the formation of dust.
Provide adequate ventilation.
Do not inhale the dust.
Remove all ignition sources.
Refer to paragraphs 7 and 8 containing protective measures.

Reference is made to section 15 regarding national regulations.

6.2 Environmental protection measures

Environmental protection measures : Avoid contact with soil, surface or groundwater.
Do not allow to enter drains.
If the product has contaminated a river or lake or entered a sewer, notify the appropriate authorities.
Prevent further leakage or spillage if not associated with risk.

6.3 Methods and material for containment and cleaning up

Cleaning methods : Pick up mechanically.
Pick up carefully and place with household waste without dusting.
Carefully clean the contaminated objects and the floor in compliance with environmental protection regulations.
Store in a suitable closed container.

6.4 Reference to Other Sections

See point 13 for disposal instructions.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Instructions for safe handling	: Keep the container tightly closed. Sufficient air exchange and/or exhaust ventilation must be ensured in the working areas. This product may only be used by properly trained personnel.
Instructions for protection against fire and explosion	: The substance / product is flammable. Danger of dust explosion. Mixtures of vapor with air are explosive when heated more strongly. Prepare fire extinguisher equipment. Do not leave near sources of heat and fire. Protect against the formation of electrostatic charges. Avoid the accumulation of dust in an enclosed space.
Hygiene measures	: General hygiene measures. Store personal protective equipment in a clean place away from the work area. Avoid splashing on skin and clothing and getting into eyes. Do not eat, drink or smoke while using. Keep away from food, drink and feed. Wash your hands before a work break and immediately after handling the product. Contaminated work clothing should not be taken outside the work area.

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Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regularly clean devices, work areas and tiles.

7.2 Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Requirements for storage areas and containers : Containers must be well closed and stored in a dry, cool and well-ventilated place. Follow the warning instructions on the labels. Store in accordance with relevant national regulations.

Further information on storage conditions : Protect contents from light.

Storage instructions : See point 10.

Additional information on storage stability : Protect from frost, heat and sunlight.

7.3 Specific end / specific end uses

Specific (specific) uses : see paragraph 1

SECTION 8: Exposure controls / personal protective equipment

8.1 Control parameters

It does not contain any substances with workplace exposure limit values.

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

Substance name	Area of use	Exposure routes	Possible health effects		Value
salicylic acid	Workers	Inhalation	Long-term - systemic effects		12 mg/m ³
	Workers	Inhalation	Long-term - local effects		5 mg/m ³
	Workers	Skin contact	Long-term - systemic effects		2.3 mg/kg body weight/day
	Consumers	Inhalation	Long-term - systemic effects		4 mg/m ³
	Consumers	Skin contact	Long-term - systemic effects		1 mg/kg body weight/day
	Consumers	Ingestion	Long-term - systemic effects		1 mg/kg body weight/day
	Consumers	Ingestion	Acute - systemic effects		4 mg/kg body weight/day

Estimated no-adverse-effect concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environment	Value
salicylic acid	Fresh water	0.2 mg/l
	Sea water	0.02 mg/l
	Sewage treatment plant	162 mg/l

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	Freshwater sediment	1.42 mg/kg dry weight
	Marine sediment	0.14 mg/kg dry weight
	Soil	0.17 mg/kg dry weight

8.2 Limiting Exposure

Personal protective equipment

Eye and face protection : Well-sealing safety glasses

Hand protection

Material : Chloroprene
Penetration time : 480 min
Gloves thickness : ≥ 0.6 mm

Material : Nitrile rubber
Penetration time : 480 min
Gloves thickness : ≥ 0.11 mm

Material : Natural rubber
Penetration time : 480 min
Gloves thickness : ≥ 0.5 mm

Material : butyl rubber
Penetration time : 480 min
Gloves thickness : ≥ 0.5 mm

Material : Fluorinated rubber
Penetration time : 480 min
Gloves thickness : ≥ 0.7 mm

Comment : Pay attention to the manufacturer's information on permeability and penetration time and specific workplace conditions (mechanical stress, contact time). The choice of suitable gloves depends not only on their material, but also on other quality parameters, which differ among individual manufacturers. Suitability for the relevant workplace should be discussed with the manufacturers of the protective gloves. Wash gloves with soap and water before removing.
Be aware that in daily use, the durability of chemically resistant gloves can be significantly shorter than the value measured according to EN 374 due to a number of external influences (e.g. temperature). 374.

Skin and body protection : Impermeable protective clothing
Choose personal protective equipment according to the amount and concentration of the hazardous substance at the workplace.

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Respiratory protection	: When used in closed systems or with good ventilation space is not needed. Use a breathing mask with a suitable filter when dusting or creating an aerosol. The filtration class of the respirator must meet the expected maximum contaminant concentration (gas/vapours/aerosol/ particles) that may arise when handling the product. If this concentration is exceeded, a self-contained breathing apparatus must be used.
Type filter	: Particle type (P)
Protective measures	: Follow the safety regulations for handling chemicals emi. Make sure that eye wash equipment and a safety shower are located close to the workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Crystalline powder

Color	: white
Odor	: odorless
Odor Threshold	: Data not available
Melting point/range	: 157 - 160 °C
Boiling point/boiling range	: 256 °C
Upper explosion limit / Upper flammability limit	: Data not available
Lower explosive limit / Lower flammability limit	: Data not available
Flash-point	: 157 °C Method: closed cup
Auto-ignition temperature	: 549 °C
Decomposition temperature	: Data not available
pH	: 2.4 (20 °C) Concentration: 2%
Viscosity	
Dynamic viscosity	: Not applicable
Kinematic viscosity	: Not applicable

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Solubility

Solubility in water : 2 g/l (20 °C)

Solubility in other solvents : Solvent: Ether
soluble substance

Solvent: Acetone
soluble substance

Solvent: Ethanol
soluble substance

Solvent: Chloroform
soluble substance

Partition coefficient: n-octanol/water : log Pow: 2.25 (25 °C)
Method: OECD Test Guideline 117

Steam pressure : 0.0002 hPa (25 °C)

Relative density : Data not available

Density : 1.44 g/cm³ (20 °C)

Relative vapor density : 4.8
(air = 1.0)

9.2 Additional Information

Explosives : Non-explosive

Oxidizing properties : Not applicable

The rate of corrosion of metals : Data not available

Sublimation point : 76 °C

Molecular weight : 138.12 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

Decomposition does not occur if the specified method of storage and use is followed.

10.2 Chemical stability

Stable under normal conditions.
Decomposes under the influence of light.

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust can form an explosive mixture with air.
Vapor-air mixtures are explosive when heated more strongly.

10.4 Conditions to Avoid

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Conditions to avoid : Exposure to light.
Heat, flames and sparks.
Do not overheat to avoid thermal decomposition.

10.5 Incompatible Materials

Materials to avoid : Oxidizing agents
Strong acids and strong bases
iodine
Fluorine
Iron

10.6 Hazardous decomposition products

Toxic gas may be released during heating or fire.
Carbon monoxide
Carbon dioxide (CO₂)

SECTION 11: Toxicological information

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

Acute toxicity

Components:

salicylic acid:

Acute oral toxicity : LD50 (Rat, male): 891 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Notes: Data not available

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Components:

salicylic acid:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Does not irritate the skin

Serious eye damage / eye irritation

Components:

salicylic acid:

Species : Rabbit
Result : Irreversible effects on vision

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Respiratory sensitization / skin sensitization

Components:

salicylic acid:

Test type	: Lymph Node Specimen Analysis (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Result	: borderline
Comment	: Corroboration of evidence

Evaluation	: Does not cause skin sensitization.
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Exposure routes	: Inhalation
Comment	: Data not available

Germ cell mutagenicity

Components:

salicylic acid:

Genotoxicity in vitro	: Test type: reverse mutation test
	Test system: Salmonella typhimurium
	Metabolic activation: with or without metabolic activation
	Method: OECD Test Guideline 471
	Result: negative

	Test Type: In Vitro Chromosomal Aberration Test
	Test system: Chinese hamster ovary cells
	Metabolic activation: with or without metabolic activation
	Method: OECD Test Guideline 473
	Result: negative

	Test type: Mammalian cell gene mutation test in vitro
	Test system: mouse lymphoma cells
	Metabolic activation: with or without metabolic activation
	Method: OECD Test Guideline 476
	Result: negative

Genotoxicity in vivo	: Test type: mammalian cells
	Species: Mouse (male)
	Cell Type: Bone Marrow
	Method of administration: Orally
	Method: OECD Test Guideline 475
	Result: negative

Carcinogenicity

Product:

Comment	: IARC (International Agency for Research on Cancer) : None of the ingredients contained in this product have been identified by IARC at levels greater than or equal to 0.1% as true
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similar, possible or confirmed carcinogen.

Ingredients:

salicylic acid:

Species	: Rat, male and female
Method of execution	: Orally
NOAEL	: 500 mg/kg body weight/day
Result	: No carcinogenic effects were observed in animal experiments.
Comment	: Read across

Reproductive toxicity

Ingredients:

salicylic acid:

Effects on fertility	: Test type: Three-generation test Species: Rat, male and female Method of administration: Orally General parental toxicity: NOAEL: 250 mg/kg bw/day General toxicity F2: NOAEL: 75 mg/kg bw/day Fertility: NOAEL: 250 mg/kg bw/day Method: OECD Test Guideline 416 Result: Non-toxic to reproduction Notes: Read across
Effects on fetal development	: Species: Rat Strain: Sprague-Dawley Method of administration: Orally General maternal toxicity: NOAEL: 150 mg/kg bw/day Developmental toxicity: NOAEL Parent: 75 mg/kg body weight/day Embryofetal toxicity: NOAEL: 75 mg/kg body weight/day Method: OECD Test Guideline 414 Result: Developmental toxicity
Reproductive toxicity - Evaluation	: Some evidence of adverse developmental effects based on animal studies.

Suspicion of damage to the fetus in the mother's body.

Specific target organ toxicity - single exposure

Components:

salicylic acid:

Comment	: Data not available
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Specific target organ toxicity - repeated exposure

Components:

salicylic acid:

Comment : Data not available

Repeated dose toxicity

Components:

salicylic acid:

Species : Rat, male and female
NOAEL : 50 mg/kg body weight/day
Method of execution : Orally
Comment : Read across

Species : Rat, female (feminine)
NOEC : 700 mg/m³
Method of execution : Inhalation
Method : OECD Test Guideline 412
Comment : Read across

Aspiration toxicity

Product:

Not applicable

11.2 Information on additional hazards

Endocrine-disrupting properties

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

salicylic acid:

Toxicity to fish : LC50 (Pimephales promelas (guts)): 1,380 mg/l
Target indicator: mortality
Exposure time: 96 h
Test type: continuous test

Toxicity to daphnia and others : EC50 (Daphnia magna) : 870 mg/l



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aquatic invertebrates

Target indicator: Immobilization
Exposure time: 48 h
Test type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida (Bacteria)): 380 mg/l

Endpoint: Growth inhibition
Exposure time: 16 h
Test type: static test
Notes: Read across

Toxicity to fish (Chronic toxicity)

: Notes: Data not available

Toxicity to daphnia and
other aquatic invertebrates
(Chronic toxicity)

: NOEC: 10 mg/l
Target Indicator: Reproduction
Exposure time: 21 d
Species: Daphnia magna

12.2 Persistence and Deployability

Components:

salicylic acid:

Biodegradability

: Test type: Biodegradability test Inoculum: activated
sludge, untreated
Result: The substance is easily biodegradable.
Biological degradation: > 90%
Exposure time: 4 d
Method: Regulation (EC) No. 440/2008, Annex C.9

Test type: aerobic
Result: Substance easily biodegradable.
Biodegradation: 100% Exposure
time: 14 d Method:
OECD Test Guideline 301 C

12.3 Bioaccumulative potential

Ingredients:

salicylic acid:

Bioaccumulation

: Notes: No bioaccumulation can be expected (log
Pow <= 4).

Partition coefficient: n-
octanol/water

: log Pow: 2.25 (25 °C)
Method: OECD Test Guideline 117

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12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

Product:

Evaluation

: The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT), or as highly persistent and highly bioaccumulative (vPvB) in a concentration of 0.1% or higher.

Ingredients:

salicylic acid:

Evaluation

: The substance is not considered to be persistent, bioaccumulative or toxic (PBT).

: The substance is not considered to be very persistent or very bioaccumulative (vPvB).

12.6 Properties causing disruption of the endocrine system

Product:

Evaluation

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

12.7 Other Adverse Effects

Data not available

SECTION 13: Disposal considerations

13.1 Waste management methods

Product

: Do not dispose together with household waste.
Do not dispose of residues by throwing them down the drain.
Do not contaminate standing or flowing water with chemicals or used containers.

Hand over residual quantities and non-regenerable solutions to a proven liquidation company.

Waste codes should be assigned by the user based on the product application used.
According to the European Waste Catalog, the waste codes are not characteristic of the product, but of its use.

Contaminated packaging

: Empty the residue.
Imperfectly empty packaging must be disposed of as an unused product.

Do not reuse empty containers.
Empty containers should be handed over to a company authorized to ma-

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nipulation with waste for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

14.2 Official (UN) shipping name

ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

14.3 Transport hazard class/classes

ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA	: Not regulated as dangerous goods

14.4 Packaging group

ADN	: Not regulated as dangerous goods
ADR	: Not regulated as dangerous goods
RID	: Not regulated as dangerous goods
IMDG	: Not regulated as dangerous goods
IATA (Cargo)	: Not regulated as dangerous goods
IATA (Passenger)	: Not regulated as dangerous goods

14.5 Environmental hazard

Not regulated as dangerous goods

14.6 Special security measures for users

Not applicable

14.7 Maritime bulk transport according to IMO instruments

It does not apply to this product as it is delivered.

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SECTION 15: Regulatory Information

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

REACH - Restrictions on production, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Restrictive conditions should be considered for the following items:
List number 75
If you intend to use this product as tattoo ink, please contact your dealer.

Lists of toxic chemicals and precursors under the international Chemical Weapons Convention (CWC) : Not applicable

REACH - List of substances of very high concern subject to authorization (Article 59). : Not applicable

Council (EC) No. 1005/2009 on substances that damage the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No. 649/2012 of the European Parliament and of the Council on the export and import of hazardous chemical substances : Not applicable

REACH - List of substances subject to authorization (Appendix XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of the risk of serious accidents involving the presence of dangerous substances. Not applicable

Volatile organic compounds : Directive 2010/75/EU of the European Parliament and of the Council of November 24, 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

Regulation of the European Parliament and the Council (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemical Substances (REACH)

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures (CLP)

Regulation (EC) No. 286/2011 of the European Parliament and Council amending, for the purpose of adaptation to technical progress, Regulation (EC) No. 1272/2008 of the European Parliament and Council on classification, labeling and packaging of substances and mixtures (CLP)

Act No. 350/2011 Coll. , on chemical substances and chemical mixtures, as amended

Act No. 258/2000 Coll. on the protection of public health, as amended

Act No. 262/2006 Coll., Labor Code, as amended

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Act No. 201/2012 Coll. on air protection, as amended

Act No. 254/2001 Coll. on waters, as amended

Regulation of the Government of the Czech Republic No. 361/2007 Coll., which establishes conditions for the health protection of employees at work, as amended

Act No. 541/2020 Coll., on waste

Comply with Directive 92/85/EC on improving the health and safety at work of pregnant or post-natal workers or any national legislation if stricter.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Further information

Full text of other abbreviations

ADN - European Agreement on the International Carriage of Dangerous Goods by River; ADR - Agreement on the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Testing Materials; bw - Body weight; CLP - Regulation on classification in packaging labelling; Regulation (EC) No. 1272/2008; CMR - Carcinogen, mutagen or reproductively toxic substance; DIN - Standard from the German Institute for Standardization; DSL - National Substances List (Canada); ECHA - European Chemicals Agency; EC Number - European Community Number; ECx - Concentration at response x %; ELx - Load intensity at response x %; EmS - Emergency plan; ENCS - List of Existing and New Chemical Substances (Japan); ErCx - Concentration at response in the form of growth x %; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Hazardous Chemicals in Bulk; IC50 - Half maximum inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - List of Existing Chemical Substances in China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Act (Japan); ISO - International Organization for Standardization; KECI - List of Existing Chemical Substances - Korea; LC50 - Lethal concentration for 50% of the test population; LD50 - Lethal dose for 50% of the population under test (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; nose - Not otherwise specified; NO(A)EC - No Observed Adverse Effect Concentration; NO(A)EL - No Observed Adverse Effect Dose; NOELR - No Observed Adverse Effect Load Intensity; NZIoC - New Zealand Inventory of Chemical Substances; OECD - Organization for Economic Cooperation and Development; OPPTS -

Office of Chemical Safety and Pollution Prevention; PB T - Persistent, bioaccumulative and toxic substance; PICCS - Philippine List of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure-Activity Relationship; REACH - Regulation of the European Parliament and the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances (EC) No. 1907/2006; RID - Regulations on international rail transport of dangerous goods; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substances List; TECI - List of Existing Chemical Substances - Thailand; TRGS - Technical rules for hazardous substances; TSCA - Toxic Substances Control Act (United States); UN - Organization of the United Nations; vPvB - Highly persistent and highly bioaccumulative

More information

More information : This safety data sheet only contains information related to safety and does not replace product information or its specification.

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Sources of the most important data used in compiling the safety data sheet

: ECHA Classification and Labeling - echa.europa.eu/de/view-article/-/journal_content/07005f81-abf1-4081-973b-6c7c526c39df

ECHA Information on Registered Substances. <http://apps.echa.europa.eu/registered/registered-sub.aspx>
PubChem <https://pubchem.ncbi.nlm.nih.gov/>
FREE material database <http://gestis.itrust.de>
Chemical Manager, KCL-Software for hand protection

The data in this safety data sheet correspond to the best of our knowledge, information and belief at the time of its issue. The information provided is intended only as a guide for the safe handling of the product, its use, storage, processing, transport, disposal and release and should not be considered as a guarantee or specification of quality. The information applies only to the specific material named and may become invalid if used in combination with any other materials or in any processes, unless specifically stated in the text.

CZ / CS

Annex to the safety data sheet

Product exposure scenario(s)	
ES Type	EC title
Worker	Use as an intermediate
Worker	Use for the manufacture of resins
Worker	Use for the separation of salts
Worker	Formulation & (re)packing of substances and mixtures
Consumer	Cosmetics, personal care products
Worker	Use in Cleaning Agents
Consumer	Use in Cleaning Agents

1. ES1 - Industrial; Use as an intermediate

1. ES1 - Industrial; Use as an intermediate

1.1. Title section

Use as an intermediate

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ES Ref.: ES1
ES Type: Worker
Revision date: 01/02/2023

Environment		Use descriptors
	Contributing scenario controlling environmental exposure	ERC6a
	Contributing scenario controlling environmental exposure	ERC6a

Worker		Use descriptors
	Unloading of salicylic from large contain-ers by bulk	PROC2
	Unloading of salicylic from Big Bag	PROC8b
	Unloading of salicylic from 25 kg bags	PROC8b
	Contributing scenario controlling worker exposure	PROC9
	Analysis of salicylic acid	PROC15
	Synthesis of substances with salicylic acid as a raw material in closed and batch process	PROC1
	Unloading of salicylic from large contain-ers by bulk	PROC2
	Synthesis of substances with salicylic acid as a raw material in closed and batch process	PROC3
	Synthesis of substances with salicylic acid as a raw material in closed and batch process	PROC2
	Synthesis of substances with salicylic acid as a raw material in closed and batch process	PROC3
	Synthesis of substances with salicylic acid as a raw material in closed and batch process	PROC4

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6a)

ERC6a	Use of intermediates
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Product (article) characteristics	
Physical form of product	Solid
Concentration of substance in product	100%

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Amount used, frequency and duration of use (or from service life)

Fraction of tonnage for application:	0.0588
Regional tonnage of the substance:	100%
Fraction of the main local source	1 (Site Rhodia)
Annual amount per site	ÿ 10600 tonnes/day
Daily amount per site	ÿ 35330 kg/day
Continuous use/release, Emission days	300 days/yr

Technical and organizational conditions and measures

Water : Physicochemical treatment: removal of sludge and wastes which are incinerated. Biological treatment with a flow rate of 4,700 m³/d. The effluent of this on-site STP is released into the Rhône with a minimum flow rate of 400 m³/s

Air : No specific measures identified

soil : No specific measures identified

Do not apply industrial sludge to natural soils. Can be incinerated according to local regulations

Conditions and measures related to sewage treatment plants

Municipal sewage treatment is not assumed.

Conditions and measures related to treatment of waste (including article waste)

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

External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Seawater :

Not applicable as there is no release

(Site Rhodia)

Freshwater:

Local freshwater dilution factor:

7354
(Rhônes)

Flow rate of receiving water at least:

400 m³ /s
(Rhônes)

1.2.2. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6a)

ERC6a

Use of intermediates

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Product (article) characteristics

Physical form of product	Solid
Concentration of substance in product	100%

Amount used, frequency and duration of use (or from service life)

Regional tonnage of the substance:	100%
Fraction of the main local source	0.23
Maximum local emission to waste water:	27.6 kg/day (calculated for a limit reject that guarantees control of risk)
Continuous use/release, Emission days	300 days/yr

Technical and organizational conditions and measures

Do not apply industrial sludge to natural soils. Sew age sludge should be incinerated, contained or reclaimed.

Conditions and measures related to sewage treatment plants

Municipal Sewage Treatment Plant. Assumed domestic sew age treatment plant flow	2000 m ³ /d
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Conditions and measures related to treatment of waste (including article waste)

External treatment and disposal of waste should comply with applicable local and/or national regulations
External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Local freshwater dilution factor:	10
Local marine water dilution factor:	100

1.2.3. Control of worker exposure: Unloading of salicylic from large containers by bulk (PROC2)

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

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Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Technical and organizational conditions and measures

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor

1.2.4. Control of worker exposure: Unloading of salicylic from Big Bag (PROC8b)

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines	
Local exhaust ventilation - efficiency of at least	95% ECETOC TRA

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Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

1.2.5. Control of worker exposure: Unloading of salicylic from 25 kg bags (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 minutes - 1 hour. (repeated exposure)

Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Local exhaust ventilation - efficiency of at least

95%
ECETOC TRA

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

1.2.6. Control of worker exposure: Contributing scenario controlling worker exposure (PROC9)

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PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Ensure dedicated sample points are provided	
Avoid dust formation. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor	
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1.2.7. Control of worker exposure: Analysis of salicylic acid (PROC15)

PROC15	Use as laboratory reagent
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Avoid formation of dust	
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Handle in a fume cupboard or under extract ventilation. Efficiency:	90% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor	
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1.2.8. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC1)

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
-------	--

Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Liquid >25%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	15 minutes - 1 hour. (repeated exposure)
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Technical and organizational conditions and measures

Handle substances within a closed system	
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Technical and organizational conditions and measures

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	
--	--

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

1.2.9. Control of worker exposure: Unloading of salicylic from large containers by bulk (PROC2)

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
-------------------	-----------------------------------

Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines	
General ventilation. Efficiency:	30% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

outdoors

1.2.10. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Liquid >25%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration 15 min - 1 h. (repeated exposure)

Technical and organizational conditions and measures

Handle substances within a closed system

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Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

1.2.11. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Liquid >25%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 minutes - 1 hour. (repeated exposure)

Technical and organizational conditions and measures

Handle substances within a closed system

Outdoor use. General ventilation. Efficiency:

30%

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

Use suitable eye protection

Other conditions affecting worker exposure

indoor

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1.2.12. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Liquid >25%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	15 minutes - 1 hour. (repeated exposure)
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Technical and organizational conditions and measures

Handle substances within a closed system	
General ventilation. Efficiency:	30% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor

1.2.13. Control of worker exposure: Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC4)

PROC4	Chemical production w here opportunity for exposure arises
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Liquid >25%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration 15 min - 1 h. (repeated exposure)

Technical and organizational conditions and measures

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Handle substances within a closed system	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6a)

Information for contributing exposure scenario

Release fraction to air from process (initial release prior to RMM):	0.05	Default values: ERC 6a
Release fraction to wastewater from process (initial release prior to RMM):	0.02	Default values: ERC 6a
Release fraction to soil from process (initial release prior to RMM):	0.001	Default values:

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.00796 mg/l	0.2 mg/l	0.04	EUSES v2.1
Freshwater sediment	0.0565 mg/kg dwt	1.42 mg/kg dwt	0.04	EUSES v2.1
Sewage treatment plant effluent	19 mg/l	162 mg/l	0.117	EUSES v2.1

1.3.2. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6a)

Information for contributing exposure scenario

Release fraction to air from process (initial release prior to RMM):	0.05	Default values: ERC 6a
Release fraction to wastewater from process (initial release prior to RMM):	0.0066	Default values: ERC 6a
Release fraction to soil from process (initial release prior to RMM):	0.001	Default values:

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Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.18 mg/l	0.2 mg/l	0.9	EUSES v2.1
Marine water	0.018 mg/l	0.02 mg/l	0.9	EUSES v2.1
Freshwater sediment	1.27 mg/kg dwt	1.42 mg/kg dwt	0.894	EUSES v2.1
Sewage treatment plant	1.74 mg/l	162 mg/l	0.011	EUSES v2.1

1.3.3. Worker exposure Unloading of salicylic from large containers by bulk (PROC2)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - systemic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA worker
Sum RCR - Long-term - systemic effects		0.061	
Long term - Local - Inhalation	0.07 mg/m3	0.014	ECETOC TRA worker, Default values: ,Inert dust

1.3.4. Worker exposure Unloading of salicylic from Big Bag (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - systemic effects	0.069 mg/kg bw/day	0.03	ECETOC TRA worker
Sum RCR - Long-term - systemic effects		0.03	
Long term - Local - Inhalation	0.125 mg/m3	0.025	ECETOC TRA worker, Default values: ,Inert dust

1.3.5. Worker exposure Unloading of salicylic from 25 kg bags (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method

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Dermal - Long-term - sys-temic effects	0.069 mg/kg bw/day	0.03	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.03	
Long term - Local - Inhalation	0.25 mg/m3	0.05	ECETOC TRA w orker ,Default values: ,Inert dust

1.3.6. Worker exposure Contributing scenario controlling worker exposure (PROC9)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	
Long term - Local - Inhalation	0.032 mg/m3	0.006	Used ART model, Default values: , Inert dust

1.3.7. Worker exposure Analysis of salicylic acid (PROC15)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.003 mg/kg bw/day	0.001	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.001	
Long term - Local - Inhalation	0.05 mg/m3	0.01	ECETOC TRA w orker ,Default values: ,Inert dust

1.3.8. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC1)

Information for contributing exposure scenario

Covered by PROC2

1.3.9. Worker exposure Unloading of salicylic from large containers by bulk (PROC2)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.061	

1.3.10. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

Information for contributing exposure scenario

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Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.013	

1.3.11. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC2)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	
Sum RCR - Long-term - systemic effects		0.061	

1.3.12. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC3)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.013	

1.3.13. Worker exposure Synthesis of substances with salicylic acid as a raw material in closed and batch process (PROC4)

Information for contributing exposure scenario			
Covered by PROC3 + PROC8b			

1.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

1.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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1.4.2. Health

Guidance - Health	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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2. ES2 - Use for the manufacture of resins

2. ES2 - Industrial; Use for the manufacture of resins

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Salicylic acid

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2.1. Title section

Use for the manufacture of resins

ES Ref.: ES2

ES Type: Worker

Environment		Use descriptors
	Contributing scenario controlling environmental exposure	ERC6d

Worker		Use descriptors
	Unloading of salicylic from 25 kg bags	PROC8b
	Unloading of salicylic from Big Bag	PROC8b
	Sampling of salicylic acid	PROC9
	Analysis of salicylic acid	PROC15
	Formulation of salicylic acid	PROC3
	Sampling of final product	PROC9
	Analysis of final product	PROC15

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6d)

ERC6d	Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
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Product (article) characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 5%

Amount used, frequency and duration of use (or from service life)	
Regional tonnage of the substance:	100%
Fraction of the main local source	1
Maximum local emission to waste water:	0.454 kg/day
Continuous use/release, Emission days	100 days/yr

Conditions and measures related to sewage treatment plants	
Municipal Sewage Treatment Plant. Assumed domestic sewage treatment plant flow	2000 m3 /d

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Conditions and measures related to treatment of waste (including article waste)

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

External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Local freshwater dilution factor

10

Local marine water dilution factor

100

2.2.2. Control of worker exposure: Unloading of salicylic from 25 kg bags (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 minutes - 1 hour. (repeated exposure)

Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines

Local exhaust ventilation - efficiency of at least

95%
ECETOC TRA

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

2.2.3. Control of worker exposure: Unloading of salicylic from Big Bag (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

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Salicylic acid

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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines	
Local exhaust ventilation - efficiency of at least	95% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor

2.2.4. Control of worker exposure: Sampling of salicylic acid (PROC9)

PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Ensure dedicated sample points are provided

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Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

2.2.5. Control of worker exposure: Analysis of salicylic acid (PROC15)

PROC15

Use as laboratory reagent

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes
repeated exposure

Technical and organizational conditions and measures

Avoid formation of dust

Local exhaust ventilation - efficiency of at least

95%
ECETOC TRA

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

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2.2.6. Control of worker exposure: Formulation of salicylic acid (PROC3)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Use in closed batch process (synthesis or formulation)	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor

2.2.7. Control of worker exposure: Sampling of final product (PROC9)

PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Liquid 1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Ensure dedicated sample points are provided

Avoid splashing. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

2.2.8. Control of worker exposure: Analysis of final product (PROC15)

PROC15

Use as laboratory reagent

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Liquid 1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes
repeated exposure

Technical and organizational conditions and measures

Avoid splashing

Local exhaust ventilation - efficiency of at least

95%
ECETOC TRA

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

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indoor

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6d)

Information for contributing exposure scenario

Release fraction to air from process (initial release prior to RMM):	0.35	Default values: ERC 6d
Release fraction to wastewater from process (initial release prior to RMM):	0.00005	Default values: ERC 6d
Release fraction to soil from process (initial release prior to RMM):	0.00025	Default values:

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.00825 mg/l	0.2 mg/l	0.041	EUSES v2.1
Marine water	0.00831 mg/l	0.02 mg/l	0.416	EUSES v2.1
Freshwater sediment	0.0585 mg/kg dw t	1.42 mg/kg dw t	0.041	EUSES v2.1
Marine water sediment	0.0059 mg/kg dw t	0.142 mg/kg dw t	0.042	EUSES v2.1

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Sewage treatment plant	0.0286 mg/l	162 mg/l	0	EUSES v2.1

2.3.2. Worker exposure Unloading of salicylic from 25 kg bags (PROC8b)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
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Dermal - Long-term - sys-temic effects	0.069 mg/kg bw/day	0.03	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.03	
Long term - Local - Inhalation	0.25 mg/m3	0.05	ECETOC TRA w orker ,Default values: ,Inert dust

2.3.3. Worker exposure Unloading of salicylic from Big Bag (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.069 mg/kg bw/day	0.03	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.03	
Long term - Local - Inhalation	0.125 mg/m3	0.025	ECETOC TRA w orker ,Default values: ,Inert dust

2.3.4. Worker exposure Sampling of salicylic acid (PROC9)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	
Long term - Local - Inhalation	0.032 mg/m3	0.006	ECETOC TRA w orker ,Default values: ,Inert dust

2.3.5. Worker exposure Analysis of salicylic acid (PROC15)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.003 mg/kg bw/day	0.001	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.001	
Long term - Local - Inhalation	0.05 mg/m3	0.01	ECETOC TRA w orker ,Default values: ,Inert dust

2.3.6. Worker exposure Formulation of salicylic acid (PROC3)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker

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Sum RCR - Long-term - systemic effects		0.013	
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2.3.7. Worker exposure Sampling of final product (PROC9)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

2.3.8. Worker exposure Analysis of final product (PROC15)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.003 mg/kg bw/day	0.001	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.001	

2.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

2.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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2.4.2. Health

Guidance - Health	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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3. ES3 - Use for the separation of salts

3. ES3 - Industrial; Use for the separation of salts

3.1. Title section

Use for the separation of salts	
ES Ref.: ES3 ES Type: Worker Revision date: 01/02/2023	

Environment	Use descriptors
	Contributing scenario controlling environmental exposure ERC6b

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Worker		Use descriptors
	Contributing scenario controlling worker exposure	PROC5
	Unloading of salicylic from Big Bag	PROC8b
	Transfer of salicylic acid into the process PROC1	
	Transfer of salicylic acid into the process PROC2	

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC6b)

ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
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Product (article) characteristics	
Physical form of product	Solid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently)

Amount used, frequency and duration of use (or from service life)	
Annual amount per site	~ 500 t/yr
Continuous use/release, Emission days	350 days/yr

Conditions and measures related to sewage treatment plants	
Assumed domestic sewage treatment plant flow	2000 m ³ /d
Biological sewage treatment plant. Efficiency:	87.37%
Controlled application of sewage sludge to agricultural soil	
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of	60%

Conditions and measures related to treatment of waste (including article waste)	
External treatment and disposal of waste should comply with applicable local and/or national regulations	
External recovery and recycling of waste should comply with applicable local and/or national regulations	

Other conditions affecting environmental exposure		
Local freshwater dilution factor:	10	
Local marine water dilution factor:	100	
Receiving surface water flow	~ 18000 m ³ /d	

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3.2.2. Control of worker exposure: Contributing scenario controlling worker exposure (PROC5)

PROC5	Mixing or blending in batch processes
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3.2.3. Control of worker exposure: Unloading of salicylic from Big Bag (PROC8b)

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Transfer via enclosed lines. Avoid formation of dust	
Local exhaust ventilation - efficiency of at least	95% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting worker exposure

indoor	
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3.2.4. Control of worker exposure: Transfer of salicylic acid into the process (PROC1)

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently)

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Amount used, frequency and duration of use (or from service life)

Exposure duration	1-4 hours per day. (repeated exposure)
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Technical and organizational conditions and measures

Used in closed systems

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

indoor

3.2.5. Control of worker exposure: Transfer of salicylic acid into the process (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used, frequency and duration of use (or from service life)

Exposure duration	1-4 hours per day. (repeated exposure)
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Technical and organizational conditions and measures

Used in closed systems

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting worker exposure

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indoor

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC6b)

Information for contributing exposure scenario

Maximum local emission to waste water:	1430 kg/day	
Water		
Release factor before on site RMM:	5%	
Release factor after on site RMM:	2%	
Release rate, local	28.6 kg/yr	
Air		(Estimated release factor)
Release factor before on site RMM:	0	
Release factor after on site RMM:	0	
Release rate, local	0 kg/year	(Since Henry's law constant is 0.0014 and 0.00069 Pa.m ³ /mol at 25°C and environmental temperature respectively, salicylic acid is less volatile than water. The emission to air is to be considered as negligible.)
Agricultural soil		
Release factor after on site RMM:	0.025%	

Protection target	Exposure estimation PNEC		RCR	Assessment method
Freshwater	0.186 mg/l	0.2 mg/l	0.93	EUSES v2.1
Marine water	0.019 mg/l	0.02 mg/l	0.95	EUSES v2.1
Freshwater sediment	1.321 mg/kg dw t	1.42 mg/kg dw t	0.93	EUSES v2.1
Marine water sediment	0.132 mg/kg dw t	0.142 mg/kg dw t	0.93	EUSES v2.1

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Sew age treatment plant 1,805 mg/l		162 mg/l	0.011	EUSES v2.1
Soil	0.143 mg/kg dw t	0.166 mg/kg dw t	0.861	EUSES v2.1

3.3.2. Worker exposure Contributing scenario controlling worker exposure (PROC5)

Information for contributing exposure scenario

During the mixing of SA with salt, SA is only added with a concentration of 30 ppm. Therefore as the concentration is less than 1%, this task was not assessed with modeling tools and considered to be controlled.

3.3.3. Worker exposure Unloading of salicylic from Big Bag (PROC8b)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.069 mg/kg bw/day	0.03	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.03	
Long term - Local - Inhalation	0.125 mg/m3	0.025	ECETOC TRA w orker ,Default values: ,Inert dust

3.3.4. Worker exposure Transfer of salicylic acid into the process (PROC1)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.34 mg/kg bw/day	0.148	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.148	
Long term - Local - Inhalation	0.006 mg/m3	0.001	ECETOC TRA w orker ,Default values: ,Inert dust

3.3.5. Worker exposure Transfer of salicylic acid into the process (PROC2)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.061	
Long term - Local - Inhalation	0.6 mg/m3	0.12	ECETOC TRA w orker ,Default values: ,Inert dust

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3.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

3.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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3.4.2. Health

Guidance - Health	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. ES4 - Formulation & (re)packing of substances and mixtures

4. ES4 - Industrial; Formulation & (re)packing of substances and mixtures

4.1. Title section

Formulation & (re)packing of substances and mixtures

ES Ref.: ES4
ES Type: Worker
Revision date: 06/10/2020

Environment	Use descriptors
Formulation (Cosmetics)	ERC2
Formulation (Fertilizers)	ERC2
Formulation (Cleaning agent, Professional)	ERC2
Formulation (Cleaning agent, Consumer)	ERC2

Worker	Use descriptors
Unloading of salicylic from 25 kg bags	PROC8b
Sampling of salicylic acid	PROC9
Analysis of salicylic acid	PROC15
blending / Ingredients	PROC5
Sampling of final product	PROC9
Analysis of final product	PROC15
Packaging in bigger bottles than 250 or 300 ml at dedicated facilities for fertilizer products (Fertilizers)	PROC8b
Packaging of the formulation in 250 or 300 ml bottles at dedicated facilities (cosmetics and cleaning agents)	PROC9

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Salicylic acid

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3.1

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14.06.2023

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	Formulation of substances with salicylic acid as a raw material in closed and batch process	PROC1
	Formulation of substances with salicylic acid as a raw material in closed and batch process	PROC2
	Formulation of substances with salicylic acid as a raw material in closed and batch process	PROC2
	Formulation of substances with salicylic acid as a raw material in closed and batch process	PROC3
	Formulation of substances with salicylic acid as a raw material in closed and batch process	PROC3
	Unloading of salicylic acid as raw material PROC8a	

Worker		Use descriptors
	Loading or packing of salicylic acid in the final product	PROC8a
	Tabletting, compression, extrusion, pelletisation, granulation (Cosmetic products) (Pure substance)	PROC14
	Tabletting, compression, extrusion, pelletisation, granulation (Cosmetic products) (Formulation)	PROC14
	Manual maintenance (cleaning and re-pair) of machinery	PROC28

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Formulation (Cosmetics) (ERC2)

ERC2	Formulation into mixture
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Product (article) characteristics	
Physical form of product	Liquid
Concentration of substance in product	2%

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage	100%
Fraction of the main local source	0.3
Continuous use/release, Emission days	100 days/yr

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Conditions and measures related to sewage treatment plants

Municipal Sewage Treatment Plant

Assumed domestic sewage treatment plant flow

2000 m³ /d

Conditions and measures related to treatment of waste (including article waste)

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

External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Local freshwater dilution factor:

10

Local marine water dilution factor:

100

4.2.2. Control of environmental exposure: Formulation (Fertilizers) (ERC2)

ERC2

Formulation into mixture

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

2%

Amount used, frequency and duration of use (or from service life)

Regional use tonnage

100%

Fraction of the main local source

1

Continuous use/release, Emission days

10 days/yr

Conditions and measures related to treatment of waste (including article waste)

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

External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Local freshwater dilution factor:

10

Local marine water dilution factor:

100

4.2.3. Control of environmental exposure: Formulation (Cleaning agent, Professional) (ERC2)

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ERC2	Formulation into mixture
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used, frequency and duration of use (or from service life)

Regional use tonnage	100%
Fraction of the main local source	1
Continuous use/release, Emission days	100 days/yr

Conditions and measures related to sewage treatment plants

Municipal Sewage Treatment Plant	
Assumed domestic sewage treatment plant flow	2000 m3 /d

Conditions and measures related to treatment of waste (including article waste)

External treatment and disposal of waste should comply with applicable local and/or national regulations	
External recovery and recycling of waste should comply with applicable local and/or national regulations	

Other conditions affecting environmental exposure

Local freshwater dilution factor:	10
Local marine water dilution factor:	100

4.2.4. Control of environmental exposure: Formulation (Cleaning agent, Consumer) (ERC2)

ERC2	Formulation into mixture
------	--------------------------

Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used, frequency and duration of use (or from service life)

Regional use tonnage	100%
Fraction of the main local source	1
Continuous use/release, Emission days	100 days/yr

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Conditions and measures related to sewage treatment plants

Municipal Sewage Treatment Plant	
Assumed domestic sewage treatment plant flow	2000 m ³ /d

Conditions and measures related to treatment of waste (including article waste)

External treatment and disposal of waste should comply with applicable local and/or national regulations	
External recovery and recycling of waste should comply with applicable local and/or national regulations	

Other conditions affecting environmental exposure

Local freshwater dilution factor:	10
Local marine water dilution factor:	100

4.2.5. Control of worker exposure: Unloading of salicylic from 25 kg bags (PROC8b)

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
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Product (article) characteristics

Physical form of product	Solid, high dustiness
Concentration of substance in product	Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	15 minutes - 1 hour. (repeated exposure)
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Technical and organizational conditions and measures

Avoid formation of dust. Transfer via enclosed lines	
Local exhaust ventilation - efficiency of at least	95% ECETOC TRA
Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

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Other conditions affecting environmental exposure

Indoor

4.2.6. Control of worker exposure: Sampling of salicylic acid (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes

repeated exposure

Technical and organizational conditions and measures

Ensure dedicated sample points are provided

Avoid any direct contact with the product. Avoid frequent contact with substances. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.7. Control of worker exposure: Analysis of salicylic acid (PROC15)

PROC15

Use as laboratory reagent

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Solid, high dustiness Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

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Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Avoid formation of dust	
Local exhaust ventilation - efficiency of at least	95% ECETOC TRA
Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Indoor	
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4.2.8. Control of worker exposure: blending / Ingredients (PROC5)

PROC5	Mixing or blending in batch processes
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Use in contained batch processes	
Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
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Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.9. Control of worker exposure: Sampling of final product (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

< 15 minutes repeated exposure

Technical and organizational conditions and measures

Ensure dedicated sample points are provided. Avoid formation of dust
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Avoid any direct contact with the product. Avoid frequent contact with substances. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.
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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency
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90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.10. Control of worker exposure: Analysis of final product (PROC15)

PROC15

Use as laboratory reagent

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 5%

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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	< 15 minutes repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Local exhaust ventilation - efficiency of at least	95% ECETOC TRA
Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Indoor	
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4.2.11. Control of worker exposure: Packaging in bigger bottles than 250 or 300 ml at dedicated facilities for fertilizer products (Fertilizers) (PROC8b)

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing. Transfer via enclosed lines	
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Avoid any direct contact with the product. Avoid frequent contact with substances. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.12. Control of worker exposure: Packaging of the formulation in 250 or 300 ml bottles at dedicated facilities (cosmetics and cleaning agents) (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

Avoid splashing. Transfer via enclosed lines

Avoid any direct contact with the product. Avoid frequent contact with substances. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.13. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC1)

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PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently)

Technical and organizational conditions and measures

Handle substances within a closed system

Other conditions affecting environmental exposure

Indoor, outdoor

4.2.14. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration 15 minutes - 1 hour

Technical and organizational conditions and measures

Handle substances within a closed system

Ensure operation is undertaken outdoors. Efficiency

30%

Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

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Other conditions affecting environmental exposure

outdoors

4.2.15. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 minutes - 1 hour

Technical and organizational conditions and measures

Handle substances within a closed system

Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

outdoors

4.2.16. Control of worker exposure: Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC3)

PROC3

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

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Exposure duration	15 minutes - 1 hour
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Technical and organizational conditions and measures

Handle substances within a closed system	
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Ensure operation is undertaken outdoors. Efficiency	30%
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Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	
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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency	90%
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Use suitable eye protection	
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Other conditions affecting environmental exposure

outdoors	
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4.2.17.substances with Control of worker exposure: Formulation of salicylic acid as a raw material in closed and batch process (PROC3)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
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Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently)
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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	15 minutes - 1 hour
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Technical and organizational conditions and measures

Handle substances within a closed system	
--	--

Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	
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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency	90%
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Use suitable eye protection	
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Other conditions affecting environmental exposure

outdoors

4.2.18. Control of worker exposure: Unloading of salicylic acid as raw material (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

15 minutes - 1 hour. (Transfer of salicylic acid by loading of 25 kg bags)

Technical and organizational conditions and measures

Technical and organizational conditions and measures

Local exhaust ventilation - efficiency of at least

90%
ECETOC TRA

Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.19. Control of worker exposure: Loading or packing of salicylic acid in the final product (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Limit the substance content in the product to 5%

Viscosity, dynamic

medium

Amount used (or contained in articles), frequency and duration of use/exposure

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Exposure duration	> 4 h (Loading or packing of salicylic acid in the final product)
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Technical and organizational conditions and measures

Open systems

Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

4.2.20. Control of worker exposure: Tableting, compression, extrusion, pelletisation, granulation (Cosmetic prod-ucts) (Pure substance) (PROC14)

PROC14

Tableting, compression, extrusion, pelletisation, granulation

Product (article) characteristics

Physical form of product

Solid, high dustiness

Concentration of substance in product

Covers percentage substance in the product up to 100% (unless stated differently)

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h

Technical and organizational conditions and measures

Local exhaust ventilation

Avoid dust formation. Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

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Indoor	
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4.2.21. Control of worker exposure: Tableting, compression, extrusion, pelletisation, granulation (Cosmetic products) (Formulation) (PROC14)

PROC14	Tableting, compression, extrusion, pelletisation, granulation
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Product (article) characteristics

Physical form of product	Solid, low dustiness
Concentration of substance in product	Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h
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Technical and organizational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).	
Avoid dust formation. Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.	

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

Use suitable eye protection	
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Other conditions affecting environmental exposure

Indoor	
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4.2.22. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

PROC28	Manual maintenance (cleaning and repair) of machinery
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Product (article) characteristics

Physical form of product	Solid, low dustiness
Concentration of substance in product	Covers percentage substance in the product up to 5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h
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Technical and organizational conditions and measures

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Avoid dust formation. Avoid frequent contact with substances. Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Use suitable eye protection	
Wear suitable gloves tested to EN374. Efficiency	90%
Wear a respirator providing a minimum efficiency of	90%

Other conditions affecting environmental exposure

Indoor

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure Formulation (Cosmetics) (ERC2)

Information for contributing exposure scenario

Maximum local emission to waste water:	23.3 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0.025	(Default values: ERC2)
Release fraction to wastewater from process (initial release prior to RMM):	0.02	(Default values: ERC2)
Release fraction to soil from process (initial re-lease prior to RMM):	0.0001	(Default values: ERC2)

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.153 mg/l	0.2 mg/l	0.765	EUSES v2.1
Marine water	0.0153 mg/l	0.02 mg/l	0.765	EUSES v2.1
Freshwater sediment	1.09 mg/kg dwt	1.42 mg/kg dwt	0.768	EUSES v2.1
Marine water sediment	0.108 mg/kg dwt	0.142 mg/kg dwt	0.761	EUSES v2.1

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Sew age treatment plant 1.47 mg/l	162 mg/l	0.009	EUSES v2.1
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4.3.2. Environmental release and exposure Formulation (Fertilizers) (ERC2)

Information for contributing exposure scenario		
Maximum local emission to waste water:	5.18 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0.025	(Default values: ERC2)
Release fraction to wastewater from process (initial release prior to RMM):	0.02	(Default values: ERC2)
Release fraction to soil from process (initial re-lease prior to RMM):	0.0001	(Default values: ERC2)

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.0381 mg/l	0.2 mg/l	0.191	EUSES v2.1
Marine water	0.00382 mg/l	0.02 mg/l	0.191	EUSES v2.1
Freshwater sediment	0.27 mg/kg dw t	1.42 mg/kg dw t	0.19	EUSES v2.1
Marine water sediment	0.0271 mg/kg dw t	0.142 mg/kg dw t	0.191	EUSES v2.1
Sew age treatment plant 0.327 mg/l		162 mg/l	0.002	EUSES v2.1

4.3.3. Environmental release and exposure Formulation (Cleaning agent, Professional) (ERC2)

Information for contributing exposure scenario		
Maximum local emission to waste water:	25.9 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0.025	
Release fraction to wastewater from process (initial release prior to RMM):	0.02	

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Release fraction to soil from process (initial re-lease prior to RMM):	0.0001	
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Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.169 mg/l	0.2 mg/l	0.845	EUSES v2.1
Marine w ater	0.0169 mg/l	0.02 mg/l	0.845	EUSES v2.1
Freshwater sediment	1.2 mg/kg dw t	1.42 mg/kg dw t	0.845	EUSES v2.1
Marine w ater sediment	0.12 mg/kg dw t	0.142 mg/kg dw t	0.845	EUSES v2.1
Sew age treatment plant 1.64 mg/l		162 mg/l	0.01	EUSES v2.1

4.3.4. Environmental release and exposure Formulation (Cleaning agent, Consumer) (ERC2)

Information for contributing exposure scenario		
Maximum local emission to waste water:	25.9 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0.025	(Default values: ERC2)
Release fraction to wastewater from process (initial release prior to RMM):	ÿ 0.02	(Default values: : ERC2)
Release fraction to soil from process (initial re-lease prior to RMM):	0.0001	(Default values: ERC2)

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.169 mg/l	0.2 mg/l	0.845	EUSES v2.1

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Marine water	0.0169 mg/l	0.02 mg/l	0.845	EUSES v2.1
Freshwater sediment	1.2 mg/kg dw t	1.42 mg/kg dw t	0.845	EUSES v2.1
Marine water sediment	0.12 mg/kg dw t	0.142 mg/kg dw t	0.845	EUSES v2.1
Sewage treatment plant 1.64 mg/l		162 mg/l	0.01	EUSES v2.1

4.3.5. Worker exposure Unloading of salicylic from 25 kg bags (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - systemic effects	0.069 mg/kg bw/day	0.03	ECETOC TRA worker
Inhalation - Long-term - systemic effects	0.25 mg/m ³	0.05	ECETOC TRA worker ,Default values: ,Inert dust
Sum RCR - Long-term - systemic effects		0.08	
Long term - Local - Inhalation	0.25 mg/m ³	0.05	ECETOC TRA worker ,Default values: ,Inert dust

4.3.6. Worker exposure Sampling of salicylic acid (PROC9)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - systemic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA worker
Inhalation - Long-term - systemic effects	0.032 mg/m ³	0.006	ECETOC TRA worker ,Default values: ,Inert dust
Sum RCR - Long-term - systemic effects		0.306	
Long term - Local - Inhalation	0.032 mg/m ³	0.006	ECETOC TRA worker ,Default values: ,Inert dust

4.3.7. Worker exposure Analysis of salicylic acid (PROC15)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method

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Dermal - Long-term - sys-temic effects	0.003 mg/kg bw/day	0.001	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	0.05 mg/m3	0.01	ECETOC TRA w orker ,Default values: ,Inert dust
Sum RCR - Long-term - systemic effects		0.011	
Long term - Local - Inhalation	0.05 mg/m3	0.01	ECETOC TRA w orker ,Default values: ,Inert dust

4.3.8. Worker exposure blending / Ingredients (PROC5)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	1.37 mg/kg bw/day	0.596	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.596	

4.3.9. Worker exposure Sampling of final product (PROC9)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

4.3.10. Worker exposure Analysis of final product (PROC15)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.003 mg/kg bw/day	0.001	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.001	

4.3.11. Worker exposure Packaging in bigger bottles than 250 or 300 ml at dedicated facilities for fertilizer products (Fertilizers) (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

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4.3.12. Worker exposure Packaging of the formulation in 250 or 300 ml bottles at dedicated facilities (cosmetics and cleaning agents) (PROC9)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

4.3.13. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC1)

Information for contributing exposure scenario			
Covered by PROC2			

4.3.14. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.061	

4.3.15. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC2)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.061	

4.3.16. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC3)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.013	

4.3.17. Worker exposure Formulation of substances with salicylic acid as a raw material in closed and batch process (PROC3)

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Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.013	

4.3.18. Worker exposure Unloading of salicylic acid as raw material (PROC8a)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	1.37 mg/kg bw/day	0.596	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	1 mg/m3	0.2	ECETOC TRA w orker ,Default values: ,Inert dust
Sum RCR - Long-term - systemic effects		0.796	
Long term - Local - Inhalation	1 mg/m3	0.2	ECETOC TRA w orker ,Default values: ,Inert dust

4.3.19. Worker exposure Loading or packing of salicylic acid in the final product (PROC8a)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.28 mg/kg bw/day	0.122	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.122	
Long term - Local - Inhalation		0.2	Not applicable, Solid in solution. For non-spraying processes (no aerosol generation), an inhalative exposure is considered to be not relevant

4.3.20. Worker exposure Tableting, compression, extrusion, pelletisation, granulation (Cosmetic products) (Pure substance) (PROC14)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.343 mg/kg bw/day	0.149	ECETOC TRA w orker (V.3)
Inhalation - Long-term - systemic effects	1 mg/m3	0.2	ECETOC TRA w orker (V.3)
Sum RCR - Long-term - systemic effects		0.349	

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4.3.21. Worker exposure Tableting, compression, extrusion, pelletisation, granulation (Cosmetic products) (Formula-tion) (PROC14)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.686 mg/kg bw/day	0.298	ECETOC TRA w orker (V.3)
Inhalation - Long-term - systemic effects	0.014 mg/m3	0.003	ECETOC TRA w orker (V.3)
Sum RCR - Long-term - systemic effects		0.301	

4.3.22. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.823 mg/kg bw/day	0.358	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	2.1 mg/m3	0.42	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.778	

4.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

4.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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4.4.2. Health

Guidance - Health	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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5. ES5 - Cosmetics, personal care products

5. ES5 - Consumer; Cosmetics, personal care products

5.1. Title section Cosmetics, personal care products

ES Ref.: ES5
ES Type: Consumer

Environment	Use descriptors
Contributing scenario controlling environmental exposure	ERC8a

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Consumer	Use descriptors
Contributing scenario consumer end-use	PC39

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC8a)

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used, frequency and duration of use (or from service life)

Regional use tonnage	10%
Fraction of the main local source	0.002
Continuous use/release, Emission days	365 days/yr

Conditions and measures related to treatment of waste (including article waste)

External treatment and disposal of waste should comply with applicable local and/or national regulations	
External recovery and recycling of waste should comply with applicable local and/or national regulations	

Other conditions affecting environmental exposure

Local freshwater dilution factor:	10
Local marine water dilution factor:	100

5.2.2. Control of consumer exposure: Contributing scenario consumer end-use (PC39)

PC39	Cosmetics, personal care products
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5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC8a)

Information for contributing exposure scenario

Maximum local emission to waste water:	0.203 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0	
Release fraction to wastewater from process (initial release prior to RMM):	ÿ 1	(Default values: ERC8a)

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Release fraction to soil from process (initial release prior to RMM):	0	
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Protection target	Exposure estimation	PNEC	RCR	Assessment method
Freshwater	0.0066 mg/l	0.2 mg/l	0.033	EUSES v2.1
Marine water	0.00067 mg/l	0.02 mg/l	0.034	EUSES v2.1
Freshwater sediment	0.047 mg/kg dw t	1.42 mg/kg dw t	0.033	EUSES v2.1
Marine water sediment	0.00478 mg/kg dw t	0.142 mg/kg dw t	0.034	EUSES v2.1
Sewage treatment plant effluent	0.0128 mg/l	162 mg/l	0	EUSES v2.1

5.3.2. Consumer exposure Contributing scenario consumer end-use (PC39)

Information for contributing exposure scenario

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

5.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

5.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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5.4.2. Health

Guidance - Health	No additional risk management measures, besides those mentioned above, are needed to guarantee safe use for consumers
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6. ES6 - Professional; Use in Cleaning Agents

6.1. Title section

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Use as an Cleaning Agent

ES Ref.: ES6

ES Type: Worker

Environment		Use descriptors
	Contributing scenario controlling environmental exposure	ERC8a
Worker		Use descriptors
	Pouring/unloading of cleaning agents from large and small containers by professionals	PROC8a
	Pouring/unloading of cleaning agents from large and small containers by professionals	PROC8b
	Pouring/unloading of cleaning agents from large and small containers by professionals	PROC9
	Pouring/unloading of cleaning agents from large and small containers by professionals	PROC8a
	Pouring/unloading of cleaning agents from large and small containers by professionals	PROC8b
	Pouring/unloading of cleaning agents from large and small containers by professionals	PROC9
	Mixing/diluting in the preparatory phase by professionals	PROC1
	Contributing scenario controlling worker exposure	PROC2
	Contributing scenario controlling worker exposure	PROC3
	Contributing scenario controlling worker exposure	PROC4
	Mixing/diluting in the preparatory phase by professionals	PROC1
	Contributing scenario controlling worker exposure	PROC2
	Contributing scenario controlling worker exposure	PROC3
	Contributing scenario controlling worker exposure	PROC4
	Cleaning activities by professionals	PROC10
	Cleaning activities by professionals	PROC11
	Cleaning activities by professionals	PROC13
	Cleaning activities by professionals	PROC10

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	Cleaning activities by professionals	PROC11
	Cleaning activities by professionals	PROC13

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC8a)

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
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Product (article) characteristics	
Physical form of product	Liquid
Concentration of substance in product	2%

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage	100%
Fraction of the main local source	0.0002
Continuous use/release, Emission days	365 days/yr

Conditions and measures related to sewage treatment plants	
Municipal Sewage Treatment Plant	
Assumed domestic sewage treatment plant flow	2000 m3 /d

Conditions and measures related to treatment of waste (including article waste)	
External treatment and disposal of waste should comply with applicable local and/or national regulations	
External recovery and recycling of waste should comply with applicable local and/or national regulations	

Other conditions affecting environmental exposure	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100

6.2.2. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
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Product (article) characteristics	
Physical form of product	Liquid
Concentration of substance in product	1-5%

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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Ensure operation is undertaken outdoors. Efficiency	30%
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Outdoors	
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6.2.3. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Ensure operation is undertaken outdoors. Efficiency	30%
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
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Use suitable eye protection

Other conditions affecting environmental exposure

Outdoors

6.2.4. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

Avoid splashing

Ensure operation is undertaken outdoors. Efficiency

30%

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Outdoors

6.2.5. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Good standard of general ventilation	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Outdoors	
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6.2.6. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Good standard of general ventilation	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
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Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

6.2.7. Control of worker exposure: Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

Avoid splashing

Good standard of general ventilation

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

6.2.8. Control of worker exposure: Mixing/diluting in the preparatory phase by professionals (PROC1)

PROC1

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

Other conditions affecting environmental exposure

Indoor	
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6.2.9. Control of worker exposure: Contributing scenario controlling worker exposure (PROC2)

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Indoor	
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6.2.10. Control of worker exposure: Contributing scenario controlling worker exposure (PROC3)

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PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Indoor	
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6.2.11. Control of worker exposure: Contributing scenario controlling worker exposure (PROC4)

PROC4	Chemical production w here opportunity for exposure arises
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process	
Good standard of general ventilation	

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Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Indoor

6.2.12. Control of worker exposure: Mixing/diluting in the preparatory phase by professionals (PROC1)

PROC1

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process

Ensure operation is undertaken outdoors

30%
ECETOC TRA

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

Other conditions affecting environmental exposure

Outdoors

6.2.13. Control of worker exposure: Contributing scenario controlling worker exposure (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

Liquid

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Concentration of substance in product	1-5%
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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process	
Ensure operation is undertaken outdoors	30% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

Outdoors	
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6.2.14. Control of worker exposure: Contributing scenario controlling worker exposure (PROC3)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process	
Ensure operation is undertaken outdoors	30% ECETOC TRA
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Outdoors

6.2.15. Control of worker exposure: Contributing scenario controlling worker exposure (PROC4)

PROC4

Chemical production w here opportunity for exposure arises

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

Handle substances within a closed system. Batch process. Continuous process

Ensure operation is undertaken outdoors

30%
ECETOC TRA

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

Outdoors

6.2.16. Control of worker exposure: Cleaning activities by professionals (PROC10)

PROC10

Roller application or brushing

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

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Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Good standard of general ventilation	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

indoor	
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6.2.17. Control of worker exposure: Cleaning activities by professionals (PROC11)

PROC11	Non industrial spraying
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	1-4 hours per day. (repeated exposure)
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Technical and organizational conditions and measures

Avoid splashing	
Good standard of general ventilation	
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

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Other conditions affecting environmental exposure

indoor

6.2.18. Control of worker exposure: Cleaning activities by professionals (PROC13)

PROC13

Treatment of articles by dipping and pouring

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

Avoid splashing

Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.

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

Wear suitable gloves tested to EN374. Efficiency

90%

Use suitable eye protection

Other conditions affecting environmental exposure

indoor

6.2.19. Control of worker exposure: Cleaning activities by professionals (PROC10)

PROC10

Roller application or brushing

Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

> 4 h
repeated exposure

Technical and organizational conditions and measures

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Avoid splashing	
Ensure operation is undertaken outdoors	30%
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

outdoors	
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6.2.20. Control of worker exposure: Cleaning activities by professionals (PROC11)

PROC11	Non industrial spraying
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	1-4 hours per day. (repeated exposure)
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Technical and organizational conditions and measures

Avoid splashing	
Ensure operation is undertaken outdoors	30%
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions follow ed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

outdoors	
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6.2.21. Control of worker exposure: Cleaning activities by professionals (PROC13)

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PROC13	Treatment of articles by dipping and pouring
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	1-5%

Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration	> 4 h repeated exposure
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Technical and organizational conditions and measures

Avoid splashing	
Ensure operation is undertaken outdoors	30%
Avoid any direct contact with the product. Minimization of manual phases. Clean equipment and the work area every day. Supervision in place to check that the risk management measures in place are being used correctly and operating conditions followed.	

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

Wear suitable gloves tested to EN374. Efficiency	90%
Use suitable eye protection	

Other conditions affecting environmental exposure

outdoors

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC8a)

Information for contributing exposure scenario

Maximum local emission to waste water:	0.068 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0	
Release fraction to wastewater from process (initial release prior to RMM):	1	(Default values: ERC8a)
Release fraction to soil from process (initial re-lease prior to RMM):	0	

Protection target	Exposure estimation PNEC	RCR	Assessment method
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Freshwater	0.00581 mg/l	0.2 mg/l	0.029	EUSES v2.1
Marine water	0.000587 mg/l	0.02 mg/l	0.029	EUSES v2.1
Freshwater sediment	0.0412 mg/kg dw t	1.42 mg/kg dw t	0.029	EUSES v2.1

Protection target	Exposure estimation	PNEC	RCR	Assessment method
Marine water sediment	0.00417 mg/kg dw t	0.14 mg/kg dw t	0.03	EUSES v2.1
Sewage treatment plant effluent	0.00428 mg/l	162 mg/l	0	EUSES v2.1

6.3.2. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - systemic effects	1.37 mg/kg bw/day	0.596	ECETOC TRA worker
Sum RCR - Long-term - systemic effects		0.596	

6.3.3. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - systemic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA worker
Sum RCR - Long-term - systemic effects		0.3	

6.3.4. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

Information for contributing exposure scenario			
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Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

6.3.5. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8a)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	1.37 mg/kg bw/day	0.596	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.596	

6.3.6. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC8b)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

6.3.7. Worker exposure Pouring/unloading of cleaning agents from large and small containers by professionals (PROC9)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

6.3.8. Worker exposure Mixing/diluting in the preparatory phase by professionals (PROC1)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.34 mg/kg bw/day	0.148	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.148	

6.3.9. Worker exposure Contributing scenario controlling worker exposure (PROC2)

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Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.061	

6.3.10. Worker exposure Contributing scenario controlling worker exposure (PROC3)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.013	

6.3.11. Worker exposure Contributing scenario controlling worker exposure (PROC4)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

6.3.12. Worker exposure Mixing/diluting in the preparatory phase by professionals (PROC1)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.34 mg/kg bw/day	0.148	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.148	

6.3.13. Worker exposure Contributing scenario controlling worker exposure (PROC2)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.14 mg/kg bw/day	0.061	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.061	

6.3.14. Worker exposure Contributing scenario controlling worker exposure (PROC3)

Information for contributing exposure scenario

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Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.03 mg/kg bw/day	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.013	

6.3.15. Worker exposure Contributing scenario controlling worker exposure (PROC4)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.69 mg/kg bw/day	0.3	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.3	

6.3.16. Worker exposure Cleaning activities by professionals (PROC10)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.55 mg/kg bw/day	0.239	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.239	

6.3.17. Worker exposure Cleaning activities by professionals (PROC11)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	1.29 mg/kg bw/day	0.561	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	1.6 mg/m3	0.32	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.881	

6.3.18. Worker exposure Cleaning activities by professionals (PROC13)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.27 mg/kg bw/day	0.117	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.117	

6.3.19. Worker exposure Cleaning activities by professionals (PROC10)

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Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.55 mg/kg bw/day	0.239	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.239	

6.3.20. Worker exposure Cleaning activities by professionals (PROC11)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	1.29 mg/kg bw/day	0.561	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	0.57 mg/m3	0.114	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.675	

6.3.21. Worker exposure Cleaning activities by professionals (PROC13)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.27 mg/kg bw/day	0.117	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.117	

6.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

6.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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6.4.2. 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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7. ES7 - Use in Cleaning Agents

7. ES7 - Consumer; Use in Cleaning Agents

7.1. Title section

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Use in Cleaning Agents

ES Ref.: ES7
ES Type: Consumer

Environment	Use descriptors
Contributing scenario controlling environmental exposure	ERC8a

Consumer	Use descriptors
Cleaning activities by customers (Air care, instant action (aerosol sprays))	PC3
Cleaning activities by customers (Air care, continuous action (solid and liquid))	PC3
Cleaning activities by customers (Polishes, wax / cream (floor, furniture, shoes))	PC31
Cleaning activities by customers (Polish-es, spray (furniture, shoes))	PC31
Cleaning activities by customers (Laundry and dish washing products)	PC35
Cleaning activities by customers (Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners))	PC35
Cleaning activities by customers (Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners))	PC35

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC8a)

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used, frequency and duration of use (or from service life)

Regional use tonnage	10% (Wide dispersive use)
Fraction of the main local source	0.002
Continuous use/release, Emission days	365 days/yr

Conditions and measures related to treatment of waste (including article waste)

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

External recovery and recycling of waste should comply with applicable local and/or national regulations

Other conditions affecting environmental exposure

Local freshwater dilution factor	10
Local marine water dilution factor	100

7.2.2. Control of consumer exposure: Cleaning activities by customers (Air care, instant action (aerosol sprays)) (PC3)

PC3	Air care products
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.007 kg
Exposure duration	0.3 h
Covers exposure up to	365 days/yr
Use frequency	1 time/day

Other conditions affecting consumer exposure

Inhalation	1.37 m3 /h
Release fraction to air	1
Covers use in room size of	20 m3

7.2.3. Control of consumer exposure: Cleaning activities by customers (Air care, continuous action (solid and liquid)) (PC3)

PC3	Air care products
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.05 kg
Use frequency	1 time/day
Exposure duration	8 h

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Covers exposure up to	365 days/yr
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Other conditions affecting consumer exposure

Points w eight	70 kg (Adult)
dermal exposure	35.7 cm2
Release fraction to air	0.001
Covers use in room size of	20 m3
Inhalation	1.37 m3 /h

7.2.4. Control of consumer exposure: Cleaning activities by customers (Polishes, wax / cream (floor, furniture, shoes)) (PC31)

PC31	Polishes and wax blends
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.55 kg
Exposure duration	4 h
Covers exposure up to	365 days/yr
Use frequency	0.5 times/day

Other conditions affecting consumer exposure

dermal exposure	420 cm2 (Palm of both hands)
Points w eight	70 kg (Adult)
Covers use in room size of	20 m3
Release fraction to air	0.001
Inhalation	1.37 m3 /h

7.2.5. Control of consumer exposure: Cleaning activities by customers (Polishes, spray (furniture, shoes)) (PC31)

PC31	Polishes and wax blends
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

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Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.135 kg
Exposure duration	4 h
Covers exposure up to	365 days/yr
Use frequency	1 time/day

Other conditions affecting consumer exposure

dermal exposure	420 cm2 (Palm of both hands)
Points w eight	70 kg (Adult)
Covers use in room size of	20 m3
Release fraction to air	0.05
Inhalation	1.37 m3 /h

7.2.6. Control of consumer exposure: Cleaning activities by customers (Laundry and dish washing products) (PC35)

PC35	Washing and cleaning products
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.05 kg
Exposure duration	1 h
Covers exposure up to	365 days/yr
Use frequency	0.5 times/day

Other conditions affecting consumer exposure

dermal exposure	420 cm2 (Palm of both hands)
Points w eight	70 kg (Adult)
Covers use in room size of	20 m3
Release fraction to air	0.001
Inhalation	1.37 m3 /h

7.2.7. Control of consumer exposure: Cleaning activities by customers (Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)) (PC35)

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PC35	Washing and cleaning products
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.25 kg
Exposure duration	0.3 h
Covers exposure up to	365 days/yr
Use frequency	1 time/day

Other conditions affecting consumer exposure

dermal exposure	420 cm2 (Palm of both hands)
Points weight	70 kg (Adult)
Covers use in room size of	20 m3
Release fraction to air	0.001
Inhalation	1.37 m3 /h

7.2.8. Control of consumer exposure: Cleaning activities by customers (Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)) (PC35)

PC35	Washing and cleaning products
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Product (article) characteristics

Physical form of product	Liquid
Concentration of substance in product	2%

Amount used (or contained in articles), frequency and duration of use/exposure

Amount per use	0.035 kg
Exposure duration	4 h
Covers exposure up to	365 days/yr
Use frequency	1 time/day

Other conditions affecting consumer exposure

dermal exposure	420 cm2 (Palm of both hands)
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Salicylic acid

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Points weight	70 kg (Adult)
Covers use in room size of	20 m3
Release fraction to air	0.05
Inhalation	1.37 m3 /h

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC8a)

Information for contributing exposure scenario		
Maximum local emission to waste water:	0.068 kg/day	
Release fraction to air from process (initial re-lease prior to RMM):	0	
Release fraction to wastewater from process (initial release prior to RMM):	ÿ 1	(Default values: ERC8a)
Release fraction to soil from process (initial re-lease prior to RMM):	0	

Protection target	Exposure estimation PNEC		RCR	Assessment method
Freshwater	0.00581 mg/l	0.2 mg/l	0.029	EUSES v2.1
Marine water	0.000587 mg/l	0.02 mg/l	0.029	EUSES v2.1
Freshwater sediment	0.0412 mg/kg dw t	1.42 mg/kg dw t	0.029	EUSES v2.1
Marine water sediment	0.00417 mg/kg dw t	0.142 mg/kg dw t	0.029	EUSES v2.1
Sewage treatment plant 0.00428 mg/l		162 mg/l	0	EUSES v2.1

7.3.2. Consumer exposure Cleaning activities by customers (Air care, instant action (aerosol sprays)) (PC3)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method

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Inhalation - Long-term - systemic effects	3.5 mg/m3	0.875	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.875	

7.3.3. Consumer exposure Cleaning activities by customers (Air care, continuous action (solid and liquid)) (PC3)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.102 mg/kg bw/day	0.102	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	0.05 mg/m3	0.013	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.115	

7.3.4. Consumer exposure Cleaning activities by customers (Polishes, wax / cream (floor, furniture, shoes)) (PC31)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.6 mg/kg bw/day	0.6	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.6	

7.3.5. Consumer exposure Cleaning activities by customers (Polishes, spray (furniture, shoes)) (PC31)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.6 mg/kg bw/day	0.6	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	3.375 mg/m3	0.844	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		1,444	

7.3.6. Consumer exposure Cleaning activities by customers (Laundry and dish washing products) (PC35)

Information for contributing exposure scenario

Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.6 mg/kg bw/day	0.6	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.6	

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7.3.7. Consumer exposure Cleaning activities by customers (Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)) (PC35)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.6 mg/kg bw/day	0.6	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.6	

7.3.8. Consumer exposure Cleaning activities by customers (Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)) (PC35)

Information for contributing exposure scenario			
Route of exposure and type of effects	Exposure estimate	RCR	Method
Dermal - Long-term - sys-temic effects	0.6 mg/kg bw/day	0.6	ECETOC TRA w orker
Inhalation - Long-term - systemic effects	0.875 mg/m3	0.219	ECETOC TRA w orker
Sum RCR - Long-term - systemic effects		0.819	

7.4. Guidance to Downstream User to evaluate whether he works within the boundaries set by the ES

7.4.1. Environment

Guidance - Environment	If scaling reveals a condition of unsafe use (ie, 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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7.4.2. Health

Guidance - Health	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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