

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



RHEOBYK-7410 ET

Version 11.0

SDB_GB

Revision Date: 03.01.2023

Date of last issue: 13.12.2022

Print Date 14.05.2025

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

1.1 Product identifier

Trade name : RHEOBYK-7410 ET

Product code : 000000000000155945

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

Use of the Sub-
stance/Mixture : Rheology Additive

1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH
Abelstrasse 45
46483 Wesel
Telephone : +49 281 670-0
Telefax : +49 281 65735

Information : Regulatory Affairs
Telephone : +49 281 670-23532
Telefax : +49 281 670-23533
E-mail address : GHS.BYK@altana.com

1.4 Emergency telephone number

+44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.

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P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

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

Hazardous components which must be listed on the label:

- 4394-85-8 4-morpholinecarbaldehyde

2.3 Other hazards

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

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of a modified urea

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
4-morpholinecarbaldehyde	4394-85-8 224-518-3 01-2119987993-12	Skin Sens. 1B; H317	>= 50 - <= 100
lithium chloride	7447-41-8 231-212-3 01-2119560574-35	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 526 mg/kg	>= 1 - < 3

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
Halogenated compounds
Metal oxides
Hydrogen chloride
Hydrogen cyanide (hydrocyanic acid)

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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
-

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

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

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
4-morpholinecarbaldehyde	Workers	Skin contact	Long-term local effects	0,293 mg/cm ²
	Workers	Inhalation	Long-term systemic effects	98 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	29 mg/m ³
lithium chloride	Consumers	Ingestion	Long-term systemic effects	8 mg/kg
	Workers	Skin contact	Acute systemic effects	100 mg/kg
	Workers	Inhalation	Acute systemic effects	30 mg/m ³
	Workers	Skin contact	Long-term systemic effects	73,2 mg/kg
	Workers	Inhalation	Long-term systemic effects	10 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	10 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	73,2 mg/kg
	Consumers	Ingestion	Long-term systemic effects	7,32 mg/kg
	Consumers	Inhalation	Acute systemic effects	30 mg/m ³
	Consumers	Skin contact	Acute systemic effects	50 mg/kg
	Consumers	Ingestion	Acute systemic effects	21,96 mg/kg

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

Substance name	Environmental Compartment	Value
4-morpholinecarbaldehyde	Fresh water	0,5 mg/l
	Marine water	0,05 mg/l
	Intermittent releases	5 mg/l
	Sewage treatment plant	2000 mg/l
	Fresh water sediment	1,85 mg/kg

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	Marine sediment	0,0764 mg/kg
lithium chloride	Fresh water	10,4 mg/l
	Fresh water sediment	270 mg/kg
	Marine water	1,04 mg/l
	Marine sediment	27 mg/kg
	Soil	49,95 mg/kg
	Sewage treatment plant	140,2 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields
Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Material : Protective gloves complying with EN 374.
Break through time : > 480 min
Glove thickness : 0,7 mm

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Environmental exposure controls

General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Colour : yellow - brown
Odour : characteristic
Odour Threshold : No data available

Melting point/range : ca. < 0 °C
Method: derived

Boiling point/boiling range : ca. 244 °C
Method: derived

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : 124 °C
Method: 49 (Pensky-Martens)

Auto-ignition temperature : > 200 °C
Method: M0062 (Analytics Wesel)

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Decomposition temperature	:	No data available
pH	:	5 (20 °C) Concentration: 1 % Method: Universal pH-value indicator
Viscosity		
Viscosity, dynamic	:	ca. 3.800 mPa.s (20 °C) Method: P/K 20°C
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	ca. 1 hPa (20 °C) Method: derived
Relative density	:	No data available
Density	:	ca. 1,18 g/cm ³ (20 °C, 1.013 hPa) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Relative vapour density	:	No data available

9.2 Other information

Flammability (liquids)	:	Sustains combustion
Evaporation rate	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
Strong oxidizing agents

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Bases

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

4-morpholinecarbaldehyde:

Acute oral toxicity : LD50 (Rat): > 7.360 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 18.400 mg/kg
Method: OECD Test Guideline 402

lithium chloride:

Acute oral toxicity : LD50 (Rat): 526 mg/kg
GLP: No information available.

Acute toxicity estimate: 526 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 5,57 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

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Components:

lithium chloride:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Severe eye irritation
GLP : yes

Respiratory or skin sensitisation

Product:

Remarks : Causes sensitisation.

Components:

lithium chloride:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.
GLP : yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

STOT - single exposure

Product:

Remarks : No data available

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STOT - repeated exposure

Product:

Remarks : No data available

Repeated dose toxicity

Product:

Remarks : No data available

Aspiration toxicity

Product:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Components:

4-morpholinecarbaldehyde:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l
Exposure time: 96 h
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Scenedesmus subspicatus): 23.880 mg/l

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- plants Exposure time: 72 h
- EC10 (Scenedesmus subspicatus): 17.040 mg/l
Exposure time: 72 h
- lithium chloride:**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 158 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 249 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
- NOEC (Daphnia magna (Water flea)): 63,4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : (Desmodesmus subspicatus (green algae)): > 400 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

4-morpholinecarbaldehyde:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301A
GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

4-morpholinecarbaldehyde:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Bioconcentration factor (BCF): < 1,9
Method: OECD Test Guideline 305C

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Endocrine disrupting properties

Product:

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

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

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14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH) Not applicable

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard

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

Further information

Classification of the mixture:

Skin Sens. 1

H317

Classification procedure:

Calculation method

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

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Annex: Exposure Scenarios

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Number	Title
ES 1	Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).
ES 2	Formulation & (re)packing of substances and mixtures; Professional uses (SU22).
ES 3	Processing aid; Industrial uses (SU3).
ES 4	Use as an intermediate; Industrial uses (SU3).
ES 5	Use in laboratories; Industrial uses (SU3).
ES 6	Cleaning; Industrial uses (SU3).
ES 7	Cleaning; Professional uses (SU22).
ES 8	Use in coatings; Industrial uses (SU3).
ES 9	Use in coatings; Professional uses (SU22).
ES 10	Use in coatings; Consumer uses (SU21).

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ES 1: Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).

1.1. Title section

Exposure Scenario name	: Formulation & (re)packing of substances and mixtures
Structured Short Title	: Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).

Environment		
CS 1	Formulation into mixture, Use of non-reactive processing aid at industrial site (no inclusion into or onto article), Use of intermediate	ERC2, ERC4, ERC6a
Worker		
CS 2	Use in closed process, no likelihood of exposure	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4
CS 6	Mixing or blending in batch processes	PROC5
CS 7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 8	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of intermediate (ERC6a)

1.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1)

Product (article) characteristics
Covers concentrations up to 100 %

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Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

1.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

1.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 480 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

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1.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

1.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 5 days per week

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Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

1.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 240 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

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Clean equipment and the work area every day.

1.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

1.2.9. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of intermediate (ERC6a)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

1.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,001 mg/m ³ (EASY TRA v3.6)	0,003
inhalative	systemic	long-term	0,048 mg/m ³ (EASY TRA v3.6)	< 0,001

1.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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		tor	mate	
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	4,7971 mg/m ³ (EASY TRA v3.6)	0,049

1.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	14,39 mg/m ³ (EASY TRA v3.6)	0,147

1.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	23,985 mg/m ³ (EASY TRA v3.6)	0,245

1.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,2 mg/m ³ (EASY TRA v3.6)	0,683
inhalative	systemic	long-term	14,3913 mg/m ³ (EASY TRA v3.6)	0,147

1.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	47,971 mg/m ³ (EASY TRA v3.6)	0,490

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1.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	23,986 mg/m ³ (EASY TRA v3.6)	0,245

1.3.9. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	23,986 mg/m ³ (EASY TRA v3.6)	0,245

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 2: Formulation & (re)packing of substances and mixtures; Professional uses (SU22).

2.1. Title section

Exposure Scenario name	: Formulation & (re)packing of substances and mixtures
Structured Short Title	: Formulation & (re)packing of substances and mixtures; Professional uses (SU22).

Environment		
CS 1	Formulation into mixture, Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use leading to inclusion into/onto article (indoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use leading to inclusion into/onto article (outdoor)	ERC2, ERC8a, ERC8c, ERC8d, ERC8f
Worker		
CS 2	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 3	Chemical production where opportunity for exposure arises	PROC4
CS 4	Mixing or blending in batch processes	PROC5
CS 5	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS 6	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS 7	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS 8	Manual activities involving hand contact	PROC19

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

2.2.2. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

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Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

2.2.3. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	

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Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

2.2.4. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 240 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

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2.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

2.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	

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Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

2.2.7. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 %	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	

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Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

2.2.8. Control of worker exposure: Manual activities involving hand contact (PROC19)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 180 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

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2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

2.3.2. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	14,3913 mg/m ³ (EASY TRA v3.6)	0,147

2.3.3. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	23,986 mg/m ³ (EASY TRA v3.6)	0,245

2.3.4. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,2 mg/m ³ (EASY TRA v3.6)	0,683
inhalative	systemic	long-term	14,3913 mg/m ³ (EASY TRA v3.6)	0,147

2.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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		tor	mate	
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	50,370 mg/m ³ (EASY TRA v3.6)	0,514

2.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	47,971 mg/m ³ (EASY TRA v3.6)	0,490

2.3.7. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	47,971 mg/m ³ (EASY TRA v3.6)	0,490

2.3.8. Worker exposure: Manual activities involving hand contact (PROC19)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,188 mg/m ³ (EASY TRA v3.6)	0,640
inhalative	systemic	long-term	17,989 mg/m ³ (EASY TRA v3.6)	0,184

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 3: Processing aid; Industrial uses (SU3).

3.1. Title section

Exposure Scenario name	: Processing aid
Structured Short Title	: Processing aid; Industrial uses (SU3).

Environment		
CS 1	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	ERC4
Worker		
CS 2	Use in closed process, no likelihood of exposure	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS 5	Chemical production where opportunity for exposure arises	PROC4

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

3.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week

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Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 480 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Clean equipment and the work area every day.

3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

3.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa

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Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

3.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,001 mg/m ³ (EASY TRA v3.6)	0,003
inhalative	systemic	long-term	0,048 mg/m ³ (EASY TRA v3.6)	< 0,001

3.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	4,7971 mg/m ³ (EASY TRA v3.6)	0,049

3.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	14,39 mg/m ³ (EASY TRA v3.6)	0,147

3.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	23,985 mg/m ³ (EASY TRA v3.6)	0,245

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

<http://www.ecetoc.org/tra>

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ES 4: Use as an intermediate; Industrial uses (SU3).

4.1. Title section

Exposure Scenario name	: Use as an intermediate
Structured Short Title	: Use as an intermediate; Industrial uses (SU3).

Environment		
CS 1	Use of intermediate	ERC6a
Worker		
CS 2	Use in closed process, no likelihood of exposure	PROC1
CS 3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS 4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Use of intermediate (ERC6a)

4.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

4.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 480 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

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4.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Use of intermediate (ERC6a)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

4.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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dermal	local	long-term	0,001 mg/m ³ (EASY TRA v3.6)	0,003
inhalative	systemic	long-term	0,048 mg/m ³ (EASY TRA v3.6)	< 0,001

4.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	4,7971 mg/m ³ (EASY TRA v3.6)	0,049

4.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	14,39 mg/m ³ (EASY TRA v3.6)	0,147

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 5: Use in laboratories; Industrial uses (SU3).

5.1. Title section

Exposure Scenario name	: Use in laboratories
Structured Short Title	: Use in laboratories; Industrial uses (SU3).
Environment	
CS 1	Use of non-reactive processing aid at industrial site (no inclusion into or ERC4 onto article)
Worker	
CS 2	Use as laboratory reagent PROC15

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

5.2.2. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	

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Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

5.3.2. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,01 mg/m ³ (EASY TRA v3.6)	0,034
inhalative	systemic	long-term	23,9855 mg/m ³ (EASY TRA v3.6)	0,245

5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 6: Cleaning; Industrial uses (SU3).

6.1. Title section

Exposure Scenario name	: Cleaning
Structured Short Title	: Cleaning; Industrial uses (SU3).

Environment		
CS 1	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	ERC4
Worker		
CS 2	Industrial spraying	PROC7
CS 3	Roller application or brushing	PROC10
CS 4	Treatment of articles by dipping and pouring	PROC13

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

6.2.2. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 420 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Local exhaust ventilation Inhalation - minimum efficiency of 95 %	

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

6.2.3. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 480 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

6.2.4. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

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Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

6.3.2. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,0875 mg/m ³ (EASY TRA v3.6)	0,299

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inhalative	systemic	long-term	20,9873 mg/m ³ (EASY TRA v3.6)	0,214
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6.3.3. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	47,971 mg/m ³ (EASY TRA v3.6)	0,490

6.3.4. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	47,971 mg/m ³ (EASY TRA v3.6)	0,490

6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 7: Cleaning; Professional uses (SU22).

7.1. Title section

Exposure Scenario name	: Cleaning
Structured Short Title	: Cleaning; Professional uses (SU22).

Environment		
CS 1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use of reactive processing aid (no inclusion into or onto article, indoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)	ERC8a, ERC8b, ERC8d, ERC8e
Worker		
CS 2	Roller application or brushing	PROC10
CS 3	Non-industrial spraying	PROC11
CS 4	Treatment of articles by dipping and pouring	PROC13

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) (ERC8e)

7.2.2. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week

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Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

7.2.3. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics
Covers concentrations up to 5 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 60 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

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7.2.4. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) (ERC8e)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

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7.3.2. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,04 mg/m ³ (EASY TRA v3.6)	0,137
inhalative	systemic	long-term	23,9855 mg/m ³ (EASY TRA v3.6)	0,245

7.3.3. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	19,1884 mg/m ³ (EASY TRA v3.6)	0,196

7.3.4. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,04 mg/m ³ (EASY TRA v3.6)	0,137
inhalative	systemic	long-term	9,5942 mg/m ³ (EASY TRA v3.6)	0,098

7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 8: Use in coatings; Industrial uses (SU3).

8.1. Title section

Exposure Scenario name	: Use in coatings
Structured Short Title	: Use in coatings; Industrial uses (SU3).

Environment		
CS 1	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	ERC4
Worker		
CS 2	Industrial spraying	PROC7
CS 3	Roller application or brushing	PROC10
CS 4	Treatment of articles by dipping and pouring	PROC13

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

8.2.2. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

8.2.3. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Covers concentrations up to 5 %
Physical form of product : Liquid
Vapour pressure : 3 Pa
Temperature : 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : 480 min
Use frequency : 5 days per week
Technical and organisational conditions and measures
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Clean equipment and the work area every day.

8.2.4. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

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Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

8.3.2. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068

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inhalative	systemic	long-term	57,5653 mg/m ³ (EASY TRA v3.6)	0,587
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8.3.3. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	9,5942 mg/m ³ (EASY TRA v3.6)	0,098

8.3.4. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,02 mg/m ³ (EASY TRA v3.6)	0,068
inhalative	systemic	long-term	9,5942 mg/m ³ (EASY TRA v3.6)	0,098

8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 9: Use in coatings; Professional uses (SU22).

9.1. Title section

Exposure Scenario name	: Use in coatings
Structured Short Title	: Use in coatings; Professional uses (SU22).

Environment		
CS 1	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use leading to inclusion into/onto article (indoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor), Widespread use leading to inclusion into/onto article (outdoor)	ERC8a, ERC8c, ERC8d, ERC8f
Worker		
CS 2	Roller application or brushing	PROC10
CS 3	Non-industrial spraying	PROC11
CS 4	Treatment of articles by dipping and pouring	PROC13
CS 5	Treatment of articles by dipping and pouring	PROC13

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

9.2.2. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min

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Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

9.2.3. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 60 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	

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Clean equipment and the work area every day.

9.2.4. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min
Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

9.2.5. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics	
Covers concentrations up to 100 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 480 min

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Use frequency	: 5 days per week
Technical and organisational conditions and measures	
Ensure that direct skin contact is avoided. Ensure safe systems of work or equivalent arrangements are in place to manage risks.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Clean equipment and the work area every day.	

9.3. Exposure estimation and reference to its source

9.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

Additional information on exposure estimation
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

9.3.2. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,04 mg/m ³ (EASY TRA v3.6)	0,137
inhalative	systemic	long-term	23,9855 mg/m ³ (EASY TRA v3.6)	0,245

9.3.3. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY)	0,341

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			TRA v3.6)	
inhalative	systemic	long-term	19,1884 mg/m ³ (EASY TRA v3.6)	0,196

9.3.4. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,04 mg/m ³ (EASY TRA v3.6)	0,137
inhalative	systemic	long-term	9,5942 mg/m ³ (EASY TRA v3.6)	0,098

9.3.5. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	local	long-term	0,1 mg/m ³ (EASY TRA v3.6)	0,341
inhalative	systemic	long-term	23,9855 mg/m ³ (EASY TRA v3.6)	0,245

9.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 10: Use in coatings; Consumer uses (SU21).

10.1. Title section

Exposure Scenario name	: Use in coatings
Structured Short Title	: Use in coatings; Consumer uses (SU21).

Consumer		
CS 1	Adhesives, sealants	PC1
CS 2	Coatings and paints, thinners, paint removers	PC9a
CS 3	Non-metal surface treatment products	PC15
CS 4	Ink and toners	PC18
CS 5	Leather treatment products	PC23
CS 6	Polishes and wax blends	PC31

10.2. Conditions of use affecting exposure

10.2.1. Control of consumer exposure: Adhesives, sealants (PC1)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,5 g/event
Duration	: 30 min
Use frequency	: 1 days per year

10.2.2. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid

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Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,5 g/event
Duration	: 60 min
Use frequency	: 1 days per year

10.2.3. Control of consumer exposure: Non-metal surface treatment products (PC15)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,5 g/event
Duration	: 240 min
Use frequency	: 1 days per year
Conditions and measures related to personal protection, hygiene and health evaluation	
Ensure spraying away from persons.	
Other conditions affecting consumers exposure	
Room size	: 58 m ³
Ventilation rate	: 0,5

10.2.4. Control of consumer exposure: Ink and toners (PC18)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	

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Amount used per event	: 0,1 g/event
Duration	: 120 min
Use frequency	: 5 days per year

10.2.5. Control of consumer exposure: Leather treatment products (PC23)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: 240 min
Use frequency	: 1 days per year
Conditions and measures related to personal protection, hygiene and health evaluation	
Ensure spraying away from persons.	
Other conditions affecting consumers exposure	
Room size	: 58 m ³
Ventilation rate	: 0,5

10.2.6. Control of consumer exposure: Polishes and wax blends (PC31)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 3 Pa
Temperature	: 20 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0,1 g/event
Duration	: 5 min
Use frequency	: 8 days per year
Conditions and measures related to personal protection, hygiene and health evaluation	

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Ensure spraying away from persons.	
Other conditions affecting consumers exposure	
Room size	: 34 m ³
Ventilation rate	: 1,5

10.3. Exposure estimation and reference to its source

10.3.1. Consumer exposure: Adhesives, sealants (PC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,0011 mg/kg bw/day (Consexpo v4.1)	< 0,001
inhalative	systemic	long-term	13,5842 mg/m ³ (Consexpo v4.1)	0,468

10.3.2. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,0011 mg/kg bw/day (Consexpo v4.1)	< 0,001
inhalative	systemic	long-term	3,3556 mg/m ³ (Consexpo v4.1)	0,116

10.3.3. Consumer exposure: Non-metal surface treatment products (PC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,0007 mg/kg bw/day (Consexpo v4.1)	< 0,001
inhalative	systemic	long-term	0,0418 mg/m ³ (Consexpo v4.1)	0,001

10.3.4. Consumer exposure: Ink and toners (PC18)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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dermal	systemic	long-term	0,0011 mg/kg bw/day (Consexpo v4.1)	< 0,001
inhalative	systemic	long-term	0,7989 mg/m ³ (Consexpo v4.1)	0,023

10.3.5. Consumer exposure: Leather treatment products (PC23)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,0007 mg/kg bw/day (Consexpo v4.1)	< 0,001
inhalative	systemic	long-term	0,0418 mg/m ³ (Consexpo v4.1)	0,001

10.3.6. Consumer exposure: Polishes and wax blends (PC31)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0,0022 mg/kg bw/day (Consexpo v4.1)	< 0,001
inhalative	systemic	long-term	0,0094 mg/m ³ (Consexpo v4.1)	< 0,001

10.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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