

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BYK-358 N

Version 13.0

SDB\_MT

Revision Date: 11.08.2023

Date of last issue: 25.05.2023

Print Date 22.08.2023

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

#### 1.1 Product identifier

Trade name : BYK-358 N

UFI : D6F7-C0FJ-P00K-F4KD

Product code : 000000000000107346

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

Use of the Sub-  
stance/Mixture : Leveling 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)

|                                                                                      |                                                        |
|--------------------------------------------------------------------------------------|--------------------------------------------------------|
| Flammable liquids, Category 3                                                        | H226: Flammable liquid and vapour.                     |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.               |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system     | H335: May cause respiratory irritation.                |
| Long-term (chronic) aquatic hazard, Category 2                                       | H411: Toxic to aquatic life with long lasting effects. |

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H226 Flammable liquid and vapour.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P391 Collect spillage.

#### Hazardous components which must be listed on the label:

- 64742-95-6 Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

### 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.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of a polyacrylate

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### Components

| Chemical name                                                                     | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                            | Concentration<br>(% w/w) |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6<br>01-2119455851-35                        | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411<br>EUH066 | >= 30 - < 50             |

For explanation of abbreviations see section 16.

## 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 : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- 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.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containment.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### 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 : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- 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 : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- 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     |
|----------------------------------------------------------------------------------|---------|-----------------|--------------------------------------|-----------|
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified | Workers | Skin contact    | Long-term exposure, Systemic effects | 25 mg/kg  |
|                                                                                  | Workers | Inhalation      | Long-term exposure,                  | 150 mg/m3 |

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|  |           |              | Systemic effects                     |          |
|--|-----------|--------------|--------------------------------------|----------|
|  | Consumers | Skin contact | Long-term exposure, Systemic effects | 11 mg/kg |
|  | Consumers | Inhalation   | Long-term exposure, Systemic effects | 32 mg/m3 |
|  | Consumers | Ingestion    | Long-term exposure, Systemic effects | 11 mg/kg |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Material : Viton  
Break through time : 120,00 min

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.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

#### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light brown

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

Initial boiling point : 160,00 °C  
Method: derived

Upper explosion limit / Upper flammability limit : 8,00 %(V)

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|                                                  |   |                                                                            |
|--------------------------------------------------|---|----------------------------------------------------------------------------|
| Lower explosion limit / Lower flammability limit | : | 0,70 %(V)                                                                  |
| Flash point                                      | : | 47,00 °C<br>Method: 48 (Abel-Pensky) DIN 51755                             |
| Auto-ignition temperature                        | : | 450,00 °C<br>Method: calculated                                            |
| Decomposition temperature                        | : | No data available                                                          |
| pH                                               | : | 7 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator    |
| Viscosity                                        |   |                                                                            |
| Viscosity, dynamic                               | : | No data available                                                          |
| Viscosity, kinematic                             | : | 117 mm <sup>2</sup> /s (40,00 °C)                                          |
| Solubility(ies)                                  |   |                                                                            |
| Water solubility                                 | : | immiscible                                                                 |
| Solubility in other solvents                     | : | No data available                                                          |
| Partition coefficient: n-octanol/water           | : | No data available                                                          |
| Vapour pressure                                  | : | 3 hPa (20,00 °C)<br>Method: derived                                        |
| Relative density                                 | : | No data available                                                          |
| Density                                          | : | 0,9500 g/cm <sup>3</sup> (20,00 °C)<br>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   |
| Surface tension        | : | No data available   |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

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### 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.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Strong oxidizing agents

### 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 : Remarks: No data available

##### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg  
Method: OECD Test Guideline 402

#### Skin corrosion/irritation

##### Product:

Remarks : No data available

##### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes



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### Serious eye damage/eye irritation

#### Product:

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

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### Carcinogenicity

#### Product:

Remarks : No data available

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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### 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

### STOT - repeated exposure

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

Remarks : No data available

### Aspiration toxicity

#### Product:

No data available

### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 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 : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Toxicity to fish : LL50 (Fish): 9,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,2 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata): 2,6 mg/l  
plants : Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
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.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 1268  
IMDG : UN 1268  
IATA : UN 1268

### 14.2 UN proper shipping name

ADR : PETROLEUM DISTILLATES, N.O.S.  
IMDG : PETROLEUM DISTILLATES, N.O.S.  
(SOLVENT NAPHTHA)  
IATA : Petroleum distillates, n.o.s.

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### 14.3 Transport hazard class(es)

**ADR** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Remarks : IMDG Code segregation group - none

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Conditions of restriction for the following entries should be considered:

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mixtures and articles (Annex XVII)

Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

dibutyltin oxide  
(Number on list 75, 20)

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).

REACH - List of substances subject to authorisation (Annex XIV)

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2

ENVIRONMENTAL HAZARDS

P5c

FLAMMABLE LIQUIDS

### 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

H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H411 : Toxic to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| STOT SE 3         | H336 |
| STOT SE 3         | H335 |
| Aquatic Chronic 2 | H411 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| 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

### Table of Contents

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

|                               |                                                                                |
|-------------------------------|--------------------------------------------------------------------------------|
| <b>Exposure Scenario name</b> | : Formulation & (re)packing of substances and mixtures                         |
| <b>Structured Short Title</b> | : Formulation & (re)packing of substances and mixtures; Industrial uses (SU3). |

| Environment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>CS 1</b> | <b>Formulation into mixture, Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ERC2, ERC4                                                 |
| Worker      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |
| <b>CS 2</b> | <b>Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PROC1                                                      |
| <b>CS 3</b> | <b>Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PROC2                                                      |
| <b>CS 4</b> | <b>Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Mixing or blending in batch processes, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Transfer of substance or mixture into small containers (dedicated filling line, including weighing), Tableting, compression, extrusion, pelettisation, granulation, Use as laboratory reagent</b> | PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15 |

#### 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)

| Product (article) characteristics                                              |          |
|--------------------------------------------------------------------------------|----------|
| Covers concentrations up to 100 %                                              |          |
| Physical form of product                                                       | : Liquid |
| Vapour pressure                                                                | : 50 hPa |
| Temperature                                                                    | : 20 °C  |
| Amount used (or contained in articles), frequency and duration of use/exposure |          |

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|                                                                                        |   |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual amount per site                                                                 | : | 730000 kg                                                                                                                                                                                                              |
| Release type                                                                           | : | Continuous release                                                                                                                                                                                                     |
| Emission days                                                                          | : | 100                                                                                                                                                                                                                    |
| <b>Conditions and measures related to sewage treatment plant</b>                       |   |                                                                                                                                                                                                                        |
| STP type                                                                               | : | Municipal sewage treatment plant                                                                                                                                                                                       |
| STP sludge treatment                                                                   | : | No application of sewage sludge to soil<br>Sewage sludge should be incinerated, contained or reclaimed.                                                                                                                |
| <b>Conditions and measures related to treatment of waste (including article waste)</b> |   |                                                                                                                                                                                                                        |
| Waste treatment                                                                        | : | External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| <b>Other conditions affecting environmental exposure</b>                               |   |                                                                                                                                                                                                                        |
| Local freshwater dilution factor                                                       | : | 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                                     | : | 100                                                                                                                                                                                                                    |

### 1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|                                                                                                      |                                                                |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                                             |                                                                |
| Covers concentrations up to 100 %                                                                    |                                                                |
| Physical form of product                                                                             | : Liquid                                                       |
| Vapour pressure                                                                                      | : 5 hPa                                                        |
| Temperature                                                                                          | : 20 °C                                                        |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>                |                                                                |
| Duration                                                                                             | : 480 min                                                      |
| Use frequency                                                                                        | : 5 days per week                                              |
| <b>Technical and organisational conditions and measures</b>                                          |                                                                |
| Store substance within a closed system.                                                              |                                                                |
| <b>Other conditions affecting workers exposure</b>                                                   |                                                                |
| Temperature                                                                                          | : Assumes use at not more than 20°C above ambient temperature. |
| <b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b> |                                                                |

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Assumes a good basic standard of occupational hygiene is implemented

### 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                                                                               | : 5 hPa                                                        |
| 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                                          |                                                                |
| Store substance within a closed system.                                                       |                                                                |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

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) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Tableting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

| Product (article) characteristics |          |
|-----------------------------------|----------|
| Covers concentrations up to 100 % |          |
| Physical form of product          | : Liquid |
| Vapour pressure                   | : 5 hPa  |
| Temperature                       | : 20 °C  |

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| Amount used (or contained in articles), frequency and duration of use/exposure                |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Duration                                                                                      | : 480 min                                                      |
| Use frequency                                                                                 | : 5 days per week                                              |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

### 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)**

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 10 kg/day    |                           |
| Waste         | 0,2 kg/day   |                           |
| Soil          | 0,1 kg/day   |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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

Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 2: Use in coatings; Industrial uses (SU3).

#### 2.1. Title section

|                               |                                           |
|-------------------------------|-------------------------------------------|
| <b>Exposure Scenario name</b> | : Use in coatings                         |
| <b>Structured Short Title</b> | : Use in coatings; Industrial uses (SU3). |

| Environment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>CS 1</b> | Use of non-reactive processing aid at industrial site (no inclusion into or onto article)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ERC4                                                                                                            |
| Worker      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |
| <b>CS 2</b> | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PROC1                                                                                                           |
| <b>CS 3</b> | Industrial spraying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PROC7                                                                                                           |
| <b>CS 4</b> | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Mixing or blending in batch processes, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Transfer of substance or mixture into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Tableting, compression, extrusion, pelettisation, granulation, Use as laboratory reagent | PROC2,<br>PROC3,<br>PROC4,<br>PROC5,<br>PROC8a,<br>PROC8b,<br>PROC9,<br>PROC10,<br>PROC13,<br>PROC14,<br>PROC15 |

#### 2.2. Conditions of use affecting exposure

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

| Product (article) characteristics                                              |          |
|--------------------------------------------------------------------------------|----------|
| Covers concentrations up to 100 %                                              |          |
| Physical form of product                                                       | : Liquid |
| Vapour pressure                                                                | : 5 hPa  |
| Temperature                                                                    | : 20 °C  |
| Amount used (or contained in articles), frequency and duration of use/exposure |          |

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|                                                                                        |                                                                                                             |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Release type                                                                           | : Continuous release                                                                                        |
| Emission days                                                                          | : 300                                                                                                       |
| <b>Conditions and measures related to sewage treatment plant</b>                       |                                                                                                             |
| STP type                                                                               | : Municipal Sewage Treatment Plant                                                                          |
| STP sludge treatment                                                                   | : Sewage sludge should be incinerated, contained or reclaimed.                                              |
| <b>Conditions and measures related to treatment of waste (including article waste)</b> |                                                                                                             |
| Waste treatment                                                                        | : External treatment and disposal of waste should comply with applicable local and/or national regulations. |
| Waste treatment                                                                        | : External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| <b>Other conditions affecting environmental exposure</b>                               |                                                                                                             |
| Local freshwater dilution factor                                                       | : 10                                                                                                        |
| Local marine water dilution factor                                                     | : 100                                                                                                       |

### 2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|                                                                                                      |                                                                |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                                             |                                                                |
| Covers concentrations up to 100 %                                                                    |                                                                |
| Physical form of product                                                                             | : Liquid                                                       |
| Vapour pressure                                                                                      | : 5 hPa                                                        |
| Temperature                                                                                          | : 20 °C                                                        |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>                |                                                                |
| Duration                                                                                             | : 480 min                                                      |
| Use frequency                                                                                        | : 5 days per week                                              |
| <b>Technical and organisational conditions and measures</b>                                          |                                                                |
| Store substance within a closed system.                                                              |                                                                |
| <b>Other conditions affecting workers exposure</b>                                                   |                                                                |
| Temperature                                                                                          | : Assumes use at not more than 20°C above ambient temperature. |
| <b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b> |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                                 |                                                                |

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### 2.2.3. Control of worker exposure: Industrial spraying (PROC7)

| Product (article) characteristics                                                     |                                                                |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                                     |                                                                |
| Physical form of product                                                              | : Liquid                                                       |
| Vapour pressure                                                                       | : 5 hPa                                                        |
| Temperature                                                                           | : 20 °C                                                        |
| Amount used (or contained in articles), frequency and duration of use/exposure        |                                                                |
| Duration                                                                              | : 480 min                                                      |
| Use frequency                                                                         | : 5 days per week                                              |
| Conditions and measures related to personal protection, hygiene and health evaluation |                                                                |
| Wear a respirator conforming to EN140.                                                |                                                                |
| Other conditions affecting workers exposure                                           |                                                                |
| Temperature                                                                           | : Assumes use at not more than 20°C above ambient temperature. |

2.2.4. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Tableting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

| Product (article) characteristics                                              |           |
|--------------------------------------------------------------------------------|-----------|
| Covers concentrations up to 100 %                                              |           |
| Physical form of product                                                       | : Liquid  |
| Vapour pressure                                                                | : 5 hPa   |
| 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                                              |
| <b>Other conditions affecting workers exposure</b> |                                                                |
| Temperature                                        | : Assumes use at not more than 20°C above ambient temperature. |

### 2.3. Exposure estimation and reference to its source

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

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 980 kg/day   |                           |
| Waste         | 0,7 kg/day   |                           |
| Soil          | 0 kg/day     |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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### ES 3: Use in coatings; Professional uses (SU22).

#### 3.1. 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 of non-reactive processing aid (no inclusion into or onto article, outdoor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ERC8a,<br>ERC8d                                                                                       |
| Worker      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |
| CS 2        | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PROC1                                                                                                 |
| CS 3        | Non-industrial spraying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PROC11                                                                                                |
| CS 4        | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Mixing or blending in batch processes, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Roller application or brushing, Treatment of articles by dipping and pouring, Use as laboratory reagent, Manual activities involving hand contact | PROC2,<br>PROC3,<br>PROC4,<br>PROC5,<br>PROC8a,<br>PROC8b,<br>PROC10,<br>PROC13,<br>PROC15,<br>PROC19 |

#### 3.2. Conditions of use affecting exposure

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

| Product (article) characteristics |          |
|-----------------------------------|----------|
| Covers concentrations up to 100 % |          |
| Physical form of product          | : Liquid |
| Vapour pressure                   | : 5 hPa  |
| Temperature                       | : 20 °C  |

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### 3.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Product (article) characteristics                                              |                                                                |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                              |                                                                |
| Physical form of product                                                       | : Liquid                                                       |
| Vapour pressure                                                                | : 5 hPa                                                        |
| 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                           |                                                                |
| Store substance within a closed system.                                        |                                                                |
| Other conditions affecting workers exposure                                    |                                                                |
| Temperature                                                                    | : Assumes use at not more than 20°C above ambient temperature. |

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

| Product (article) characteristics                                              |                                                                |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                              |                                                                |
| Physical form of product                                                       | : Liquid                                                       |
| Vapour pressure                                                                | : 5 hPa                                                        |
| 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                           |                                                                |
| Handle in a fume cupboard or under extract ventilation.                        |                                                                |
| Other conditions affecting workers exposure                                    |                                                                |
| Temperature                                                                    | : Assumes use at not more than 20°C above ambient temperature. |

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**3.2.4. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Use as laboratory reagent (PROC15) / Manual activities involving hand contact (PROC19)**

| Product (article) characteristics                                              |                                                                |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                              |                                                                |
| Physical form of product                                                       | : Liquid                                                       |
| Vapour pressure                                                                | : 5 hPa                                                        |
| Temperature                                                                    | : 20 °C                                                        |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                                |
| Duration                                                                       | : 480 min                                                      |
| Use frequency                                                                  | : 5 days per week                                              |
| Other conditions affecting workers exposure                                    |                                                                |
| Temperature                                                                    | : Assumes use at not more than 20°C above ambient temperature. |

### 3.3. Exposure estimation and reference to its source

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

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 980 kg/day   |                           |
| Waste         | 10 kg/day    |                           |
| Soil          | 10 kg/day    |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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### ES 4: Cleaning; Industrial uses (SU3).

#### 4.1. 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        | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PROC1                                               |
| CS 3        | Industrial spraying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PROC7                                               |
| CS 4        | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Roller application or brushing, Treatment of articles by dipping and pouring | PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC13 |

#### 4.2. Conditions of use affecting exposure

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

| Product (article) characteristics                                              |                      |
|--------------------------------------------------------------------------------|----------------------|
| Covers concentrations up to 100 %                                              |                      |
| Physical form of product                                                       | : Liquid             |
| Vapour pressure                                                                | : 5 hPa              |
| Temperature                                                                    | : 20 °C              |
| Amount used (or contained in articles), frequency and duration of use/exposure |                      |
| Annual amount per site                                                         | : 100000 kg          |
| Release type                                                                   | : Continuous release |

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|                                                                                        |   |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emission days                                                                          | : | 20                                                                                                                                                                                                                     |
| <b>Conditions and measures related to sewage treatment plant</b>                       |   |                                                                                                                                                                                                                        |
| STP type                                                                               | : | Municipal Sewage Treatment Plant                                                                                                                                                                                       |
| STP sludge treatment                                                                   | : | No application of sewage sludge to soil<br>Sewage sludge should be incinerated, contained or reclaimed.                                                                                                                |
| <b>Conditions and measures related to treatment of waste (including article waste)</b> |   |                                                                                                                                                                                                                        |
| Waste treatment                                                                        | : | External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| <b>Other conditions affecting environmental exposure</b>                               |   |                                                                                                                                                                                                                        |
| Local freshwater dilution factor                                                       | : | 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                                     | : | 1.000                                                                                                                                                                                                                  |

### 4.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|                                                                                                      |   |                                                              |
|------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                                             |   |                                                              |
| Covers concentrations up to 100 %                                                                    |   |                                                              |
| Physical form of product                                                                             | : | Liquid                                                       |
| Vapour pressure                                                                                      | : | 5 hPa                                                        |
| Temperature                                                                                          | : | 20 °C                                                        |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>                |   |                                                              |
| Duration                                                                                             | : | 480 min                                                      |
| Use frequency                                                                                        | : | 5 days per week                                              |
| <b>Technical and organisational conditions and measures</b>                                          |   |                                                              |
| Store substance within a closed system.                                                              |   |                                                              |
| <b>Other conditions affecting workers exposure</b>                                                   |   |                                                              |
| Temperature                                                                                          | : | Assumes use at not more than 20°C above ambient temperature. |
| <b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b> |   |                                                              |
| Assumes a good basic standard of occupational hygiene is implemented                                 |   |                                                              |

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### 4.2.3. Control of worker exposure: Industrial spraying (PROC7)

| Product (article) characteristics                                                             |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 5 %                                                               |                                                                |
| Physical form of product                                                                      | : Liquid                                                       |
| Vapour pressure                                                                               | : 5 hPa                                                        |
| 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                                          |                                                                |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).   |                                                                |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

**4.2.4. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13)**

| Product (article) characteristics                                              |                   |
|--------------------------------------------------------------------------------|-------------------|
| Covers concentrations up to 100 %                                              |                   |
| Physical form of product                                                       | : Liquid          |
| Vapour pressure                                                                | : 5 hPa           |
| 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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| Other conditions affecting workers exposure                                                   |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

### 4.3. Exposure estimation and reference to its source

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

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 1.000 kg/day |                           |
| Waste         | 0,003 kg/day |                           |
| Soil          | 0 kg/day     |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see  
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### ES 5: Cleaning; Professional uses (SU22).

#### 5.1. 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)                                                                                                                                                                                                                                                                                                                                                                                                                            | ERC8a                               |
| CS 2        | Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)                                                                                                                                                                                                                                                                                                                                                                                                                           | ERC8d                               |
| Worker      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| CS 3        | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                                                                                                                                                                                                                                                                                                                                                                 | PROC1                               |
| CS 4        | Transfer of substance or mixture (charging/discharging) at non dedicated-facilities                                                                                                                                                                                                                                                                                                                                                                                                                                  | PROC8a                              |
| CS 5        | Roller application or brushing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PROC10                              |
| CS 6        | Non-industrial spraying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PROC11                              |
| CS 7        | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Treatment of articles by dipping and pouring | PROC2, PROC3, PROC4, PROC8b, PROC13 |

#### 5.2. Conditions of use affecting exposure

##### 5.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

| Product (article) characteristics |          |
|-----------------------------------|----------|
| Covers concentrations up to 100 % |          |
| Physical form of product          | : Liquid |
| Vapour pressure                   | : 5 hPa  |
| Temperature                       | : 20 °C  |

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| Amount used (or contained in articles), frequency and duration of use/exposure  |                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual amount per site                                                          | : 1000000 kg                                                                                                                                                                                                             |
| Release type                                                                    | : Continuous release                                                                                                                                                                                                     |
| Emission days                                                                   | : 365                                                                                                                                                                                                                    |
| Conditions and measures related to sewage treatment plant                       |                                                                                                                                                                                                                          |
| STP type                                                                        | : Municipal Sewage Treatment Plant                                                                                                                                                                                       |
| STP sludge treatment                                                            | : No application of sewage sludge to soil<br>Sewage sludge should be incinerated, contained or reclaimed.                                                                                                                |
| Conditions and measures related to treatment of waste (including article waste) |                                                                                                                                                                                                                          |
| Waste treatment                                                                 | : External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| Other conditions affecting environmental exposure                               |                                                                                                                                                                                                                          |
| Local freshwater dilution factor                                                | : 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                              | : 100                                                                                                                                                                                                                    |

### 5.2.2. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

| Product (article) characteristics                                              |                                                                                                           |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Covers concentrations up to 100 %                                              |                                                                                                           |
| Physical form of product                                                       | : Liquid                                                                                                  |
| Vapour pressure                                                                | : 5 hPa                                                                                                   |
| Temperature                                                                    | : 20 °C                                                                                                   |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                                                                           |
| Annual amount per site                                                         | : 1000000 kg                                                                                              |
| Release type                                                                   | : Continuous release                                                                                      |
| Emission days                                                                  | : 365                                                                                                     |
| Conditions and measures related to sewage treatment plant                      |                                                                                                           |
| STP type                                                                       | : Municipal Sewage Treatment Plant                                                                        |
| STP sludge treatment                                                           | : No application of sewage sludge to soil<br>Sewage sludge should be incinerated, contained or reclaimed. |

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| Conditions and measures related to treatment of waste (including article waste) |                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment                                                                 | : External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| Other conditions affecting environmental exposure                               |                                                                                                                                                                                                                          |
| Local freshwater dilution factor                                                | : 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                              | : 100                                                                                                                                                                                                                    |

### 5.2.3. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Product (article) characteristics                                                             |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                                             |                                                                |
| Physical form of product                                                                      | : Liquid                                                       |
| Vapour pressure                                                                               | : 5 hPa                                                        |
| 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                                          |                                                                |
| Store substance within a closed system.                                                       |                                                                |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

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

| Product (article) characteristics |  |
|-----------------------------------|--|
| Covers concentrations up to 100 % |  |

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|                                                                                                      |                                                                |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Physical form of product                                                                             | : Liquid                                                       |
| Vapour pressure                                                                                      | : 5 hPa                                                        |
| Temperature                                                                                          | : 20 °C                                                        |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>                |                                                                |
| Duration                                                                                             | : 240 min                                                      |
| Use frequency                                                                                        | : 5 days per week                                              |
| <b>Other conditions affecting workers exposure</b>                                                   |                                                                |
| Temperature                                                                                          | : Assumes use at not more than 20°C above ambient temperature. |
| <b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b> |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                                 |                                                                |

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

|                                                                                                      |                                                                |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                                             |                                                                |
| Covers concentrations up to 25 %                                                                     |                                                                |
| Physical form of product                                                                             | : Liquid                                                       |
| Vapour pressure                                                                                      | : 5 hPa                                                        |
| Temperature                                                                                          | : 20 °C                                                        |
| <b>Other conditions affecting workers exposure</b>                                                   |                                                                |
| Temperature                                                                                          | : Assumes use at not more than 20°C above ambient temperature. |
| <b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b> |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                                 |                                                                |

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

|                                          |          |
|------------------------------------------|----------|
| <b>Product (article) characteristics</b> |          |
| Covers concentrations up to 1 %          |          |
| Physical form of product                 | : Liquid |
| Vapour pressure                          | : 5 hPa  |
| Temperature                              | : 20 °C  |

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| Amount used (or contained in articles), frequency and duration of use/exposure                |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Duration                                                                                      | : 480 min                                                      |
| Use frequency                                                                                 | : 5 days per week                                              |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

**5.2.7. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Treatment of articles by dipping and pouring (PROC13)**

| Product (article) characteristics                                                             |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                                             |                                                                |
| Physical form of product                                                                      | : Liquid                                                       |
| Vapour pressure                                                                               | : 5 hPa                                                        |
| Temperature                                                                                   | : 20 °C                                                        |
| Amount used (or contained in articles), frequency and duration of use/exposure                |                                                                |
| Duration                                                                                      | : 480 min                                                      |
| Use frequency                                                                                 | : 5 days per week                                              |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

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### 5.3. Exposure estimation and reference to its source

#### 5.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 20 kg/day    |                           |
| Waste         | 0,001 kg/day |                           |
| Soil          | 0 kg/day     |                           |

#### 5.3.2. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 20 kg/day    |                           |
| Waste         | 0,001 kg/day |                           |
| Soil          | 0 kg/day     |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 6: Use in laboratories; Industrial uses (SU3).

#### 6.1. Title section

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| <b>Exposure Scenario name</b> | : Use in laboratories                         |
| <b>Structured Short Title</b> | : Use in laboratories; Industrial uses (SU3). |

| Environment |                                                                                                                            |                |
|-------------|----------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>CS 1</b> | <b>Formulation into mixture, Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</b> | ERC2, ERC4     |
| Worker      |                                                                                                                            |                |
| <b>CS 2</b> | <b>Roller application or brushing, Use as laboratory reagent</b>                                                           | PROC10, PROC15 |

#### 6.2. Conditions of use affecting exposure

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

| Product (article) characteristics                                               |                                                                                                           |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Covers concentrations up to 100 %                                               |                                                                                                           |
| Physical form of product                                                        | : Liquid                                                                                                  |
| Vapour pressure                                                                 | : 50 hPa                                                                                                  |
| Temperature                                                                     | : 20 °C                                                                                                   |
| Amount used (or contained in articles), frequency and duration of use/exposure  |                                                                                                           |
| Annual amount per site                                                          | : 730000 kg                                                                                               |
| Release type                                                                    | : Continuous release                                                                                      |
| Emission days                                                                   | : 100                                                                                                     |
| Conditions and measures related to sewage treatment plant                       |                                                                                                           |
| STP type                                                                        | : Municipal sewage treatment plant                                                                        |
| STP sludge treatment                                                            | : No application of sewage sludge to soil<br>Sewage sludge should be incinerated, contained or reclaimed. |
| Conditions and measures related to treatment of waste (including article waste) |                                                                                                           |
| Waste treatment                                                                 | : External treatment and disposal of waste should comply with                                             |

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|                                                                                                                                                               |       |
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| applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with<br>applicable local and/or national regulations. |       |
| <b>Other conditions affecting environmental exposure</b>                                                                                                      |       |
| Local freshwater dilution factor                                                                                                                              | : 10  |
| Local marine water dilution factor                                                                                                                            | : 100 |

### 6.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Use as laboratory reagent (PROC15)

|                                                                                                      |                                                                |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                                             |                                                                |
| Covers concentrations up to 100 %                                                                    |                                                                |
| Physical form of product                                                                             | : Liquid                                                       |
| Vapour pressure                                                                                      | : 10 hPa                                                       |
| Temperature                                                                                          | : 20 °C                                                        |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>                |                                                                |
| Duration                                                                                             | : 480 min                                                      |
| Use frequency                                                                                        | : 5 days per week                                              |
| <b>Other conditions affecting workers exposure</b>                                                   |                                                                |
| Temperature                                                                                          | : Assumes use at not more than 20°C above ambient temperature. |
| <b>Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply</b> |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                                 |                                                                |

### 6.3. Exposure estimation and reference to its source

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

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 10 kg/day    |                           |
| Waste         | 0,2 kg/day   |                           |
| Soil          | 0,1 kg/day   |                           |



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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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### ES 7: Use in laboratories; Professional uses (SU22).

#### 7.1. Title section

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| <b>Exposure Scenario name</b> | : Use in laboratories                            |
| <b>Structured Short Title</b> | : Use in laboratories; Professional uses (SU22). |

| Environment |                                                                                                  |                   |
|-------------|--------------------------------------------------------------------------------------------------|-------------------|
| <b>CS 1</b> | <b>Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</b> | ERC8a             |
| Worker      |                                                                                                  |                   |
| <b>CS 2</b> | <b>Roller application or brushing, Use as laboratory reagent</b>                                 | PROC10,<br>PROC15 |

#### 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)

| Product (article) characteristics                                              |                                                                                                           |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Covers concentrations up to 100 %                                              |                                                                                                           |
| Physical form of product                                                       | : Liquid                                                                                                  |
| Vapour pressure                                                                | : 10 hPa                                                                                                  |
| Temperature                                                                    | : 20 °C                                                                                                   |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                                                                           |
| Annual amount per site                                                         | : 1 kg                                                                                                    |
| Release type                                                                   | : Continuous release                                                                                      |
| Emission days                                                                  | : 365                                                                                                     |
| Conditions and measures related to sewage treatment plant                      |                                                                                                           |
| STP type                                                                       | : Municipal Sewage Treatment Plant                                                                        |
| STP sludge treatment                                                           | : No application of sewage sludge to soil<br>Sewage sludge should be incinerated, contained or reclaimed. |
| Other conditions affecting environmental exposure                              |                                                                                                           |
| Local freshwater dilution factor                                               | : 10                                                                                                      |

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|                                    |       |
|------------------------------------|-------|
| Local marine water dilution factor | : 100 |
|------------------------------------|-------|

### 7.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Use as laboratory reagent (PROC15)

| Product (article) characteristics                                                             |                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Covers concentrations up to 100 %                                                             |                                                                |
| Physical form of product                                                                      | : Liquid                                                       |
| Vapour pressure                                                                               | : 10 hPa                                                       |
| Temperature                                                                                   | : 20 °C                                                        |
| Amount used (or contained in articles), frequency and duration of use/exposure                |                                                                |
| Duration                                                                                      | : 480 min                                                      |
| Use frequency                                                                                 | : 5 days per week                                              |
| Other conditions affecting workers exposure                                                   |                                                                |
| Temperature                                                                                   | : Assumes use at not more than 20°C above ambient temperature. |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |                                                                |
| Assumes a good basic standard of occupational hygiene is implemented                          |                                                                |

### 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)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 0,01 kg/day  |                           |
| Waste         | 0,01 kg/day  |                           |
| Soil          | 0 kg/day     |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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

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Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 8: Cleaning; Consumer uses (SU21).

#### 8.1. Title section

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Exposure Scenario name</b> | : Cleaning                        |
| <b>Structured Short Title</b> | : Cleaning; Consumer uses (SU21). |

| Environment  |                                                                                                   |       |
|--------------|---------------------------------------------------------------------------------------------------|-------|
| <b>CS 1</b>  | <b>Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</b>  | ERC8a |
| <b>CS 2</b>  | <b>Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)</b> | ERC8d |
| Consumer     |                                                                                                   |       |
| <b>CS 3</b>  | Air care products                                                                                 | PC3   |
| <b>CS 4</b>  | Coatings and paints, thinners, paint removers                                                     | PC9a  |
| <b>CS 5</b>  | Coatings and paints, thinners, paint removers                                                     | PC9a  |
| <b>CS 6</b>  | Washing and cleaning products (including solvent based products)                                  | PC35  |
| <b>CS 7</b>  | Coatings and paints, thinners, paint removers                                                     | PC9a  |
| <b>CS 8</b>  | Washing and cleaning products                                                                     | PC35  |
| <b>CS 9</b>  | Washing and cleaning products (including solvent based products)                                  | PC35  |
| <b>CS 10</b> | Washing and cleaning products (including solvent based products)                                  | PC35  |

#### 8.2. Conditions of use affecting exposure

##### 8.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

| Product (article) characteristics                                              |          |
|--------------------------------------------------------------------------------|----------|
| Covers concentrations up to 100 %                                              |          |
| Physical form of product                                                       | : Liquid |
| Vapour pressure                                                                | : 10 hPa |
| Temperature                                                                    | : 20 °C  |
| Amount used (or contained in articles), frequency and duration of use/exposure |          |
| Annual amount per site                                                         | : 2,6 kg |

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|                                                                                        |   |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Release type                                                                           | : | Continuous release                                                                                                                                                                                                     |
| Emission days                                                                          | : | 365                                                                                                                                                                                                                    |
| <b>Conditions and measures related to treatment of waste (including article waste)</b> |   |                                                                                                                                                                                                                        |
| Waste treatment                                                                        | : | External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| <b>Other conditions affecting environmental exposure</b>                               |   |                                                                                                                                                                                                                        |
| Local freshwater dilution factor                                                       | : | 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                                     | : | 100                                                                                                                                                                                                                    |

### 8.2.2. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

|                                                                                        |   |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                               |   |                                                                                                                                                                                                                        |
| Covers concentrations up to 100 %                                                      |   |                                                                                                                                                                                                                        |
| Physical form of product                                                               | : | Liquid                                                                                                                                                                                                                 |
| Vapour pressure                                                                        | : | 10 hPa                                                                                                                                                                                                                 |
| Temperature                                                                            | : | 20 °C                                                                                                                                                                                                                  |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>  |   |                                                                                                                                                                                                                        |
| Annual amount per site                                                                 | : | 2,6 kg                                                                                                                                                                                                                 |
| Release type                                                                           | : | Continuous release                                                                                                                                                                                                     |
| Emission days                                                                          | : | 365                                                                                                                                                                                                                    |
| <b>Conditions and measures related to treatment of waste (including article waste)</b> |   |                                                                                                                                                                                                                        |
| Waste treatment                                                                        | : | External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| <b>Other conditions affecting environmental exposure</b>                               |   |                                                                                                                                                                                                                        |
| Local freshwater dilution factor                                                       | : | 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                                     | : | 100                                                                                                                                                                                                                    |

### 8.2.3. Control of consumer exposure: Air care products (PC3)

Air care, continuous action (solid and liquid) (PC3\_2)

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| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 10 %                                               |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 0,48 g/event                                    |
| Duration                                                                       | : 480 min                                         |
| Use frequency                                                                  | : 365 days per year                               |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 20 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

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

Waterborne latex wall paint (PC9a\_1, PC15\_1)

| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 1 %                                                |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 2,760 kg                                        |
| Duration                                                                       | : 132 min                                         |
| Use frequency                                                                  | : 4 days per year                                 |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 20 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

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

Solvent rich, high solid, water borne paint (PC9a\_2, PC15\_2)

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| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 27,5 %                                             |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 0,744 kg                                        |
| Duration                                                                       | : 132 min                                         |
| Use frequency                                                                  | : 6 days per year                                 |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 20 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

### 8.2.6. Control of consumer exposure: Washing and cleaning products (including solvent based products) (PC35)

Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners ) (PC8\_2, PC35\_2)

| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 50 %                                               |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 0,215 kg                                        |
| Duration                                                                       | : 19,8 min                                        |
| Use frequency                                                                  | : 2 days per year                                 |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 24 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

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



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Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a\_4, PC15\_4)

| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 50 %                                               |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 0,491 kg                                        |
| Duration                                                                       | : 120 min                                         |
| Use frequency                                                                  | : 3 days per year                                 |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 20 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

### 8.2.8. Control of consumer exposure: Washing and cleaning products (PC35)

Laundry and dish washing products (PC35\_1, PC8\_1)

| Product (article) characteristics                                              |                     |
|--------------------------------------------------------------------------------|---------------------|
| Covers concentrations up to 5 %                                                |                     |
| Physical form of product                                                       | : Liquid            |
| Vapour pressure                                                                | : 10 hPa            |
| Temperature                                                                    | : 20 °C             |
| Amount used (or contained in articles), frequency and duration of use/exposure |                     |
| Amount used per event                                                          | : 15 g/event        |
| Duration                                                                       | : 30 min            |
| Use frequency                                                                  | : 365 days per year |
| Other conditions affecting consumers exposure                                  |                     |
| Room size                                                                      | : 20 m3             |

### 8.2.9. Control of consumer exposure: Washing and cleaning products (including solvent based products) (PC35)

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Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners ) (PC8\_2, PC35\_2)

| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 5 %                                                |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 27 g/event                                      |
| Duration                                                                       | : 19,8 min                                        |
| Use frequency                                                                  | : 128 days per year                               |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 20 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

### 8.2.10. Control of consumer exposure: Washing and cleaning products (including solvent based products) (PC35)

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8\_3, PC35\_3)

| Product (article) characteristics                                              |                                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------|
| Covers concentrations up to 15 %                                               |                                                   |
| Physical form of product                                                       | : Liquid                                          |
| Vapour pressure                                                                | : 10 hPa                                          |
| Temperature                                                                    | : 20 °C                                           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                                                   |
| Amount used per event                                                          | : 35 g/event                                      |
| Duration                                                                       | : 10,2 min                                        |
| Use frequency                                                                  | : 128 days per year                               |
| Other conditions affecting consumers exposure                                  |                                                   |
| Room size                                                                      | : 20 m3                                           |
| Ventilation rate                                                               | : Covers use under typical household ventilation. |

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### 8.3. Exposure estimation and reference to its source

#### 8.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 950 kg/day   |                           |
| Waste         | 25 kg/day    |                           |
| Soil          | 25 kg/day    |                           |

#### 8.3.2. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 950 kg/day   |                           |
| Waste         | 25 kg/day    |                           |
| Soil          | 25 kg/day    |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

For scaling see

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

Further details on scaling and control technologies are provided in SPERC factsheet.

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### ES 9: Use in coatings; Consumer uses (SU21).

#### 9.1. Title section

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Exposure Scenario name</b> | : Use in coatings                        |
| <b>Structured Short Title</b> | : Use in coatings; Consumer uses (SU21). |

| Environment |                                                                                                  |       |
|-------------|--------------------------------------------------------------------------------------------------|-------|
| <b>CS 1</b> | <b>Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)</b> | ERC8a |
| <b>CS 2</b> | <b>Wide dispersive indoor use of reactive substances in open systems</b>                         | ERC8b |
| Consumer    |                                                                                                  |       |
| <b>CS 3</b> | Adhesives, sealants                                                                              | PC1   |
| <b>CS 4</b> | Coatings and paints, thinners, paint removers                                                    | PC9a  |

#### 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)

| Product (article) characteristics                                               |                                                                                                             |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Covers concentrations up to 100 %                                               |                                                                                                             |
| Physical form of product                                                        | : Liquid                                                                                                    |
| Vapour pressure                                                                 | : 10 hPa                                                                                                    |
| Temperature                                                                     | : 20 °C                                                                                                     |
| Amount used (or contained in articles), frequency and duration of use/exposure  |                                                                                                             |
| Annual amount per site                                                          | : 130 kg                                                                                                    |
| Daily amount per site                                                           | : 370 kg                                                                                                    |
| Regional use tonnage                                                            | : 270000 kg                                                                                                 |
| Release type                                                                    | : Continuous release                                                                                        |
| Emission days                                                                   | : 365                                                                                                       |
| Conditions and measures related to treatment of waste (including article waste) |                                                                                                             |
| Waste treatment                                                                 | : External treatment and disposal of waste should comply with applicable local and/or national regulations. |

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|                                                                                                           |       |
|-----------------------------------------------------------------------------------------------------------|-------|
| External recovery and recycling of waste should comply with applicable local and/or national regulations. |       |
| <b>Other conditions affecting environmental exposure</b>                                                  |       |
| Local freshwater dilution factor                                                                          | : 10  |
| Local marine water dilution factor                                                                        | : 100 |

### 9.2.2. Control of environmental exposure: Wide dispersive indoor use of reactive substances in open systems (ERC8b)

|                                                                                        |                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product (article) characteristics</b>                                               |                                                                                                                                                                                                                          |
| Covers concentrations up to 100 %                                                      |                                                                                                                                                                                                                          |
| Physical form of product                                                               | : Liquid                                                                                                                                                                                                                 |
| Vapour pressure                                                                        | : 10 hPa                                                                                                                                                                                                                 |
| Temperature                                                                            | : 20 °C                                                                                                                                                                                                                  |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b>  |                                                                                                                                                                                                                          |
| Annual amount per site                                                                 | : 130 kg                                                                                                                                                                                                                 |
| Daily amount per site                                                                  | : 370 kg                                                                                                                                                                                                                 |
| Regional use tonnage                                                                   | : 270000 kg                                                                                                                                                                                                              |
| Release type                                                                           | : Continuous release                                                                                                                                                                                                     |
| Emission days                                                                          | : 365                                                                                                                                                                                                                    |
| <b>Conditions and measures related to treatment of waste (including article waste)</b> |                                                                                                                                                                                                                          |
| Waste treatment                                                                        | : External treatment and disposal of waste should comply with applicable local and/or national regulations.<br>External recovery and recycling of waste should comply with applicable local and/or national regulations. |
| <b>Other conditions affecting environmental exposure</b>                               |                                                                                                                                                                                                                          |
| Local freshwater dilution factor                                                       | : 10                                                                                                                                                                                                                     |
| Local marine water dilution factor                                                     | : 100                                                                                                                                                                                                                    |

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

Glues, hobby use (PC1\_1)

|                                          |  |
|------------------------------------------|--|
| <b>Product (article) characteristics</b> |  |
| Covers concentrations up to 30 %         |  |

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|                                                                                       |                                                   |
|---------------------------------------------------------------------------------------|---------------------------------------------------|
| Physical form of product                                                              | : Liquid                                          |
| Vapour pressure                                                                       | : 10 hPa                                          |
| Temperature                                                                           | : 20 °C                                           |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b> |                                                   |
| Amount used per event                                                                 | : 9 g/event                                       |
| Duration                                                                              | : 240 min                                         |
| Use frequency                                                                         | : 365 days per year                               |
| <b>Other conditions affecting consumers exposure</b>                                  |                                                   |
| Room size                                                                             | : 20 m <sup>3</sup>                               |
| Ventilation rate                                                                      | : Covers use under typical household ventilation. |

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

|                                                                                       |                                                   |
|---------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Product (article) characteristics</b>                                              |                                                   |
| Covers concentrations up to 50 %                                                      |                                                   |
| Physical form of product                                                              | : Liquid                                          |
| Vapour pressure                                                                       | : 10 hPa                                          |
| Temperature                                                                           | : 20 °C                                           |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b> |                                                   |
| Amount used per event                                                                 | : 0,491 kg                                        |
| Duration                                                                              | : 120 min                                         |
| Use frequency                                                                         | : 3 days per year                                 |
| <b>Other conditions affecting consumers exposure</b>                                  |                                                   |
| Room size                                                                             | : 20 m <sup>3</sup>                               |
| Ventilation rate                                                                      | : Covers use under typical household ventilation. |

### 9.2.5. Control of consumer exposure:

Plasters and floor equalizers (PC9b\_2)

Fillers and putty (PC9b\_1)

|                                          |  |
|------------------------------------------|--|
| <b>Product (article) characteristics</b> |  |
| Covers concentrations up to 2 %          |  |

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|                                                                                       |                                                   |
|---------------------------------------------------------------------------------------|---------------------------------------------------|
| Physical form of product                                                              | : Liquid                                          |
| Vapour pressure                                                                       | : 10 hPa                                          |
| Temperature                                                                           | : 20 °C                                           |
| <b>Amount used (or contained in articles), frequency and duration of use/exposure</b> |                                                   |
| Amount used per event                                                                 | : 13,8 kg                                         |
| Duration                                                                              | : 120 min                                         |
| Use frequency                                                                         | : 12 days per year                                |
| <b>Other conditions affecting consumers exposure</b>                                  |                                                   |
| Room size                                                                             | : 20 m <sup>3</sup>                               |
| Ventilation rate                                                                      | : Covers use under typical household ventilation. |

### 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)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 985 kg/day   |                           |
| Waste         | 10 kg/day    |                           |
| Soil          | 5 kg/day     |                           |

#### 9.3.2. Environmental release and exposure: Wide dispersive indoor use of reactive substances in open systems (ERC8b)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Air           | 985 kg/day   |                           |
| Waste         | 10 kg/day    |                           |
| Soil          | 5 kg/day     |                           |

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

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

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