

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



## BYK-P 105

Version 11.0

SDB\_CH

Revision Date: 21.08.2024

Date of last issue: 03.01.2023

Print Date 14.05.2025

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

#### 1.1 Product identifier

Trade name : BYK-P 105  
Product code : 000000000000101615

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

Use of the Sub-stance/Mixture : Wetting & Dispersing Additive

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-0  
Telefax : +49 281 65735  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone number

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin irritation, Category 2 H315: Causes skin irritation.  
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

#### 2.2 Label elements

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

|                   |   |                                                                                     |
|-------------------|---|-------------------------------------------------------------------------------------|
| Hazard pictograms | : |  |
| Signal word       | : | Warning                                                                             |
| Hazard statements | : | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.           |

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Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

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

- 85711-46-2 Fatty acids, C14-18 and C16-18-unsatd., maleated
- 108-31-6 maleic anhydride

### 2.3 Other hazards

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

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Lower molecular weight unsaturated polycarboxylic acid polymer

#### Components

| Chemical name                                    | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                         | Concentration<br>(% w/w)    |
|--------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Fatty acids, C14-18 and C16-18-unsatd., maleated | 85711-46-2<br>01-2119976378-19-0000                   | Skin Irrit. 2; H315<br>Skin Sens. 1; H317                                                                                                              | <b>&gt;= 50 - &lt;= 100</b> |
| maleic anhydride                                 | 108-31-6<br>203-571-6<br>01-2119472428-31             | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Resp. Sens. 1; H334<br>Skin Sens. 1A; H317<br>STOT RE 1; H372<br>(Respiratory system) | <b>&gt;= 0,5 - &lt; 1</b>   |

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|  |  |                                                                  |  |
|--|--|------------------------------------------------------------------|--|
|  |  | EUH071                                                           |  |
|  |  | specific concentration limit<br>Skin Sens. 1A; H317<br>≥ 0,001 % |  |

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

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

|           |                             |
|-----------|-----------------------------|
| Treatment | : No information available. |
|-----------|-----------------------------|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Suitable extinguishing media | : Foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
|------------------------------|-------------------------------------------------------------|

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Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

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

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

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

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

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

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

#### Occupational Exposure Limits

| Components       | CAS-No.                                                                                                                                                                                                                                                                                         | Value type (Form of exposure) | Control parameters               | Basis   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|---------|
| maleic anhydride | 108-31-6                                                                                                                                                                                                                                                                                        | TWA                           | 0,1 ppm<br>0,4 mg/m <sup>3</sup> | CH SUVA |
|                  | Further information: Sensitizers; Substances marked with an S can lead to very strong allergic reactions., National Institute for Occupational Safety and Health, Occupational Safety and Health Administration, Harm to the unborn child is not to be expected when the OEL-value is respected |                               |                                  |         |
|                  |                                                                                                                                                                                                                                                                                                 | STEL                          | 0,1 ppm<br>0,4 mg/m <sup>3</sup> | CH SUVA |
|                  | Further information: Sensitizers; Substances marked with an S can lead to very strong allergic reactions., National Institute for Occupational Safety and Health, Occupational Safety and Health Administration, Harm to the unborn child is not to be expected when the OEL-value is respected |                               |                                  |         |

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

| Substance name   | End Use | Exposure routes | Potential health effects                            | Value                   |
|------------------|---------|-----------------|-----------------------------------------------------|-------------------------|
| maleic anhydride | Workers | Inhalation      | Long-term systemic effects, Long-term local effects | 0,081 mg/m <sup>3</sup> |
|                  | Workers | Inhalation      | Systemic effects, Acute effects, Local effects      | 0,2 mg/m <sup>3</sup>   |

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

| Substance name   | Environmental Compartment | Value        |
|------------------|---------------------------|--------------|
| maleic anhydride | Fresh water               | 0,038 mg/l   |
|                  | Marine water              | 0,0038 mg/l  |
|                  | Intermittent releases     | 0,379 mg/l   |
|                  | Soil                      | 0,037 mg/kg  |
|                  | Fresh water sediment      | 0,296 mg/kg  |
|                  | Marine sediment           | 0,0296 mg/kg |
|                  | Sewage treatment plant    | 44,6 mg/l    |

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### 8.2 Exposure controls

#### Personal protective equipment

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

Hand protection  
Material : Nitrile rubber  
Break through time : > 480 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Colour : brown  
Odour : slight  
Odour Threshold : No data available

Melting point/ range : < 20 °C  
Method: derived

Boiling point/boiling range : > 200 °C  
Method: derived

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : > 110,00 °C  
Method: 49 (Pensky-Martens)

Auto-ignition temperature : > 200 °C  
Method: DIN 51794

Decomposition temperature : No data available

pH : 6 (20 °C)  
Concentration: 1 %  
Method: Universal pH-value indicator

Viscosity

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Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

### Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : < 1 hPa (20,00 °C)  
Method: derived

Relative density : No data available

Density : 1,0450 g/cm<sup>3</sup> (20,00 °C)  
Method: 4 (20°C oscillating U-tube)

Bulk density : Not applicable

Relative vapour density : No data available

## 9.2 Other information

Flammability (liquids) : Sustains combustion

Evaporation rate : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

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

##### Acute toxicity

###### Components:

###### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

###### **maleic anhydride:**

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg  
GLP: No information available.

##### Skin corrosion/irritation

###### Product:

Remarks : May irritate skin.  
May cause skin irritation and/or dermatitis.

###### Components:

###### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Species : EPISKIN human epidermis skin constructs  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 439  
Result : Irritating to skin.  
GLP : yes

###### **maleic anhydride:**

Species : Rabbit  
Method : No information available.  
Result : Corrosive to skin  
GLP : no

##### Serious eye damage/eye irritation

###### Product:

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

###### Components:

###### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Species : Rabbit

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

### maleic anhydride:

Species : Rabbit  
Result : Corrosive to eyes  
GLP : yes

### Respiratory or skin sensitisation

#### Product:

Remarks : Causes sensitisation.

#### Components:

##### Fatty acids, C14-18 and C16-18-unsatd., maleated:

Test Type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Assessment : May cause sensitisation by skin contact.  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
GLP : yes

### maleic anhydride:

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Causes sensitisation.  
GLP : yes

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### Fatty acids, C14-18 and C16-18-unsatd., maleated:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

### Carcinogenicity

#### Product:

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### STOT - single exposure

#### Product:

Remarks : No data available

### STOT - repeated exposure

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Components:

#### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Species : Rat, male and female

NOAEL : 1.000 mg/kg

Application Route : Oral

Method : OECD Test Guideline 422

GLP : yes

Target Organs : Stomach

### Aspiration toxicity

#### Product:

No data available

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

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

#### Further information

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Toxicity to fish : LL50 (Leuciscus idus (Golden orfe)): > 150 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: yes

##### **maleic anhydride:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata): 74,35 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
GLP: no

### 12.2 Persistence and degradability

#### Components:

##### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301  
GLP: yes

##### **maleic anhydride:**

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

### 12.3 Bioaccumulative potential

#### Components:

##### **maleic anhydride:**

Partition coefficient: n-octanol/water : log Pow: -2,61 (19,8 °C)  
pH: 4 - 9  
Method: OECD Test Guideline 107  
GLP: yes

### 12.4 Mobility in soil

#### Components:

##### **maleic anhydride:**

Distribution among environmental compartments : Koc: 42, log Koc: 1,63

### 12.5 Results of PBT and vPvB assessment

#### Product:

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

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0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

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

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

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

---

## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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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, mixtures and articles (Annex XVII)              | : Conditions of restriction for the following entries should be considered: Number on list 75, 3                                     |
|                                                                                                                                                         | If you intend to use this product as tattoo ink, please contact your vendor.                                                         |
| 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. | Not applicable                                                                                                                       |
| Volatile organic compounds                                                                                                                              | : Law on the incentive tax for volatile organic compounds (VOCV)<br>Volatile organic compounds (VOC) content: 0,5 %<br>no VOC duties |

#### 15.2 Chemical safety assessment

Not applicable

### SECTION 16: Other information

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

#### Full text of H-Statements

|        |                                                                              |
|--------|------------------------------------------------------------------------------|
| H302   | : Harmful if swallowed.                                                      |
| H314   | : Causes severe skin burns and eye damage.                                   |
| H315   | : Causes skin irritation.                                                    |
| H317   | : May cause an allergic skin reaction.                                       |
| H318   | : Causes serious eye damage.                                                 |
| H334   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H372   | : Causes damage to organs through prolonged or repeated exposure if inhaled. |
| EUH071 | : Corrosive to the respiratory tract.                                        |

#### Full text of other abbreviations

|            |                      |
|------------|----------------------|
| Acute Tox. | : Acute toxicity     |
| Eye Dam.   | : Serious eye damage |

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|                |                                                      |
|----------------|------------------------------------------------------|
| Resp. Sens.    | : Respiratory sensitisation                          |
| Skin Corr.     | : Skin corrosion                                     |
| Skin Irrit.    | : Skin irritation                                    |
| Skin Sens.     | : Skin sensitisation                                 |
| STOT RE        | : Specific target organ toxicity - repeated exposure |
| CH SUVA        | : Switzerland. Limit values at the work place        |
| CH SUVA / TWA  | : Time Weighted Average                              |
| CH SUVA / STEL | : Short Term Exposure Limit                          |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|               |      |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Skin Sens. 1  | H317 |

#### Classification procedure:

|                    |
|--------------------|
| 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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Print Date 14.05.2025

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## Annex: Exposure Scenarios

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| Number | Title                                          |
|--------|------------------------------------------------|
| ES 1   | Polymerisation; Industrial uses (SU3).         |
| ES 2   | Use as an intermediate; Industrial uses (SU3). |

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### ES 1: **Polymerisation**; Industrial uses (SU3).

#### 1.1. Title section

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

| Environment |                                                                                                                                                                      |        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CS 1        | Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)                                                                   | ERC6c  |
| Worker      |                                                                                                                                                                      |        |
| CS 2        | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                 | PROC1  |
| CS 3        | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 | PROC2  |
| CS 4        | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3  |
| CS 5        | Transfer of substance or mixture (charging/discharging) at dedicated facilities                                                                                      | PROC8b |
| CS 6        | Use as laboratory reagent                                                                                                                                            | PROC15 |

#### 1.2. Conditions of use affecting exposure

##### 1.2.1. Control of environmental exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

| Product (article) characteristics                                                             |
|-----------------------------------------------------------------------------------------------|
| Covers concentrations up to 100 %                                                             |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |
| No specific measures identified.                                                              |

##### 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)

| Product (article) characteristics |
|-----------------------------------|
|-----------------------------------|

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|                                                                                                                            |                    |
|----------------------------------------------------------------------------------------------------------------------------|--------------------|
| Covers concentrations up to 100 %                                                                                          |                    |
| Physical form of product                                                                                                   | : Solid            |
| Vapour pressure                                                                                                            | : 0,33 hPa         |
| Temperature                                                                                                                | : 25 °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>                                                                |                    |
| Local exhaust ventilation                                                                                                  |                    |
| <b>Conditions and measures related to personal protection, hygiene and health evaluation</b>                               |                    |
| Wear suitable gloves tested to EN374.<br>Wear a respirator conforming to EN140.<br>Inhalation - minimum efficiency of 95 % |                    |
| <b>Other conditions affecting workers exposure</b>                                                                         |                    |
| Body parts exposed                                                                                                         | : Palm of one hand |
| Indoor or outdoor use                                                                                                      | : Indoor           |
| Ventilation rate per hour                                                                                                  | : 3 - 5            |

### 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)

|                                                                                       |                   |
|---------------------------------------------------------------------------------------|-------------------|
| <b>Product (article) characteristics</b>                                              |                   |
| Covers concentrations up to 100 %                                                     |                   |
| Physical form of product                                                              | : Solid           |
| Vapour pressure                                                                       | : 0,33 hPa        |
| Temperature                                                                           | : 25 °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>                           |                   |
| Local exhaust ventilation                                                             |                   |

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| Conditions and measures related to personal protection, hygiene and health evaluation |                                              |
|---------------------------------------------------------------------------------------|----------------------------------------------|
| Wear suitable gloves tested to EN374.                                                 |                                              |
| Inhalation - minimum efficiency of 95 %                                               |                                              |
| Wear a respirator conforming to EN140.                                                |                                              |
| Other conditions affecting workers exposure                                           |                                              |
| Body parts exposed                                                                    | : Palms of both hands (480 cm <sup>2</sup> ) |
| Indoor or outdoor use                                                                 | : Indoor                                     |
| Ventilation rate per hour                                                             | : 3 - 5                                      |

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

| Product (article) characteristics                                                     |                    |
|---------------------------------------------------------------------------------------|--------------------|
| Covers concentrations up to 100 %                                                     |                    |
| Physical form of product                                                              | : Solid            |
| Vapour pressure                                                                       | : 0,33 hPa         |
| Temperature                                                                           | : 25 °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                                  |                    |
| Local exhaust ventilation                                                             |                    |
| Conditions and measures related to personal protection, hygiene and health evaluation |                    |
| Wear suitable gloves tested to EN374.                                                 |                    |
| Inhalation - minimum efficiency of 95 %                                               |                    |
| Wear a respirator conforming to EN140.                                                |                    |
| Other conditions affecting workers exposure                                           |                    |
| Body parts exposed                                                                    | : Palm of one hand |
| Indoor or outdoor use                                                                 | : Indoor           |
| Ventilation rate per hour                                                             | : 3 - 5            |

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

| Product (article) characteristics                                                     |                      |
|---------------------------------------------------------------------------------------|----------------------|
| Covers concentrations up to 100 %                                                     |                      |
| Physical form of product                                                              | : Solid              |
| Vapour pressure                                                                       | : 0,33 hPa           |
| Temperature                                                                           | : 25 °C              |
| Amount used (or contained in articles), frequency and duration of use/exposure        |                      |
| Duration                                                                              | : 240 min            |
| Use frequency                                                                         | : 5 days per week    |
| Technical and organisational conditions and measures                                  |                      |
| Local exhaust ventilation                                                             |                      |
| Conditions and measures related to personal protection, hygiene and health evaluation |                      |
| Wear suitable gloves tested to EN374.<br>Inhalation - minimum efficiency of 95 %      |                      |
| Wear a respirator conforming to EN140.                                                |                      |
| Other conditions affecting workers exposure                                           |                      |
| Body parts exposed                                                                    | : Palm of both hands |
| Indoor or outdoor use                                                                 | : Indoor             |
| Ventilation rate per hour                                                             | : 3 - 5              |

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

| Product (article) characteristics                                              |                   |
|--------------------------------------------------------------------------------|-------------------|
| Covers concentrations up to 100 %                                              |                   |
| Physical form of product                                                       | : Solid           |
| Vapour pressure                                                                | : 0,33 hPa        |
| Temperature                                                                    | : 25 °C           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                   |
| Duration                                                                       | : 240 min         |
| Use frequency                                                                  | : 5 days per week |

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| Technical and organisational conditions and measures                                  |                    |
|---------------------------------------------------------------------------------------|--------------------|
| Local exhaust ventilation                                                             |                    |
| Conditions and measures related to personal protection, hygiene and health evaluation |                    |
| Wear suitable gloves tested to EN374.<br>Inhalation - minimum efficiency of 95 %      |                    |
| Wear a respirator conforming to EN140.                                                |                    |
| Other conditions affecting workers exposure                                           |                    |
| Body parts exposed                                                                    | : Palm of one hand |
| Indoor or outdoor use                                                                 | : Indoor           |
| Ventilation rate per hour                                                             | : 3 - 5            |

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

#### 1.3.1. Environmental release and exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

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

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,001764 mg/kg bw/day |     |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,068576 mg/kg bw/day |     |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,034336 mg/kg bw/day |     |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,411454 mg/kg bw/day |     |

### 1.3.6. Worker exposure: Use as laboratory reagent (PROC15)

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,010336 mg/kg bw/day |     |

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

For scaling see  
<http://www.ecetoc.org/tra>

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### ES 2: Use as an intermediate; Industrial uses (SU3).

#### 2.1. Title section

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

| Environment |                                                                                                                                                                      |        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CS 1        | Use of intermediate                                                                                                                                                  | ERC6a  |
| Worker      |                                                                                                                                                                      |        |
| CS 2        | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                 | PROC1  |
| CS 3        | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 | PROC2  |
| CS 4        | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3  |
| CS 5        | Transfer of substance or mixture (charging/discharging) at dedicated facilities                                                                                      | PROC8b |
| CS 6        | Use as laboratory reagent                                                                                                                                            | PROC15 |

#### 2.2. Conditions of use affecting exposure

##### 2.2.1. Control of environmental exposure: Use of intermediate (ERC6a)

| Product (article) characteristics                                                             |
|-----------------------------------------------------------------------------------------------|
| Covers concentrations up to 100 %                                                             |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |
| No specific measures identified.                                                              |

##### 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)

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

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|                                                                                              |                    |
|----------------------------------------------------------------------------------------------|--------------------|
| Physical form of product                                                                     | : Solid            |
| Vapour pressure                                                                              | : 0,33 hPa         |
| Temperature                                                                                  | : 25 °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>                                  |                    |
| Local exhaust ventilation                                                                    |                    |
| <b>Conditions and measures related to personal protection, hygiene and health evaluation</b> |                    |
| Wear suitable gloves tested to EN374.<br>Inhalation - minimum efficiency of 95 %             |                    |
| Wear a respirator conforming to EN140.                                                       |                    |
| <b>Other conditions affecting workers exposure</b>                                           |                    |
| Body parts exposed                                                                           | : Palm of one hand |
| Indoor or outdoor use                                                                        | : Indoor           |
| Ventilation rate per hour                                                                    | : 3 - 5            |

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

|                                                                                       |                   |
|---------------------------------------------------------------------------------------|-------------------|
| <b>Product (article) characteristics</b>                                              |                   |
| Covers concentrations up to 100 %                                                     |                   |
| Physical form of product                                                              | : Solid           |
| Vapour pressure                                                                       | : 0,33 hPa        |
| Temperature                                                                           | : 25 °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>                           |                   |
| Local exhaust ventilation                                                             |                   |

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| Conditions and measures related to personal protection, hygiene and health evaluation |                                              |
|---------------------------------------------------------------------------------------|----------------------------------------------|
| Wear suitable gloves tested to EN374.                                                 |                                              |
| Inhalation - minimum efficiency of 95 %                                               |                                              |
| Wear a respirator conforming to EN140.                                                |                                              |
| Other conditions affecting workers exposure                                           |                                              |
| Body parts exposed                                                                    | : Palms of both hands (480 cm <sup>2</sup> ) |
| Indoor or outdoor use                                                                 | : Indoor                                     |
| Ventilation rate per hour                                                             | : 3 - 5                                      |

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

| Product (article) characteristics                                                     |                    |
|---------------------------------------------------------------------------------------|--------------------|
| Covers concentrations up to 100 %                                                     |                    |
| Physical form of product                                                              | : Solid            |
| Vapour pressure                                                                       | : 0,33 hPa         |
| Temperature                                                                           | : 25 °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                                  |                    |
| Local exhaust ventilation                                                             |                    |
| Conditions and measures related to personal protection, hygiene and health evaluation |                    |
| Wear suitable gloves tested to EN374.                                                 |                    |
| Inhalation - minimum efficiency of 95 %                                               |                    |
| Wear a respirator conforming to EN140.                                                |                    |
| Other conditions affecting workers exposure                                           |                    |
| Body parts exposed                                                                    | : Palm of one hand |
| Indoor or outdoor use                                                                 | : Indoor           |
| Ventilation rate per hour                                                             | : 3 - 5            |

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

| Product (article) characteristics                                                     |                   |
|---------------------------------------------------------------------------------------|-------------------|
| Covers concentrations up to 100 %                                                     |                   |
| Physical form of product                                                              | : Solid           |
| Vapour pressure                                                                       | : 0,33 hPa        |
| Temperature                                                                           | : 25 °C           |
| Amount used (or contained in articles), frequency and duration of use/exposure        |                   |
| Duration                                                                              | : 240 min         |
| Use frequency                                                                         | : 5 days per week |
| Technical and organisational conditions and measures                                  |                   |
| Local exhaust ventilation                                                             |                   |
| Conditions and measures related to personal protection, hygiene and health evaluation |                   |
| Wear suitable gloves tested to EN374.<br>Inhalation - minimum efficiency of 95 %      |                   |
| Wear a respirator conforming to EN140.                                                |                   |
| Other conditions affecting workers exposure                                           |                   |
| Body parts exposed                                                                    | : Both hands      |
| Indoor or outdoor use                                                                 | : Indoor          |
| Ventilation rate per hour                                                             | : 3 - 5           |

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

| Product (article) characteristics                                              |                   |
|--------------------------------------------------------------------------------|-------------------|
| Covers concentrations up to 100 %                                              |                   |
| Physical form of product                                                       | : Solid           |
| Vapour pressure                                                                | : 0,33 hPa        |
| Temperature                                                                    | : 25 °C           |
| Amount used (or contained in articles), frequency and duration of use/exposure |                   |
| Duration                                                                       | : 240 min         |
| Use frequency                                                                  | : 5 days per week |

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| Technical and organisational conditions and measures                                  |                    |
|---------------------------------------------------------------------------------------|--------------------|
| Local exhaust ventilation                                                             |                    |
| Conditions and measures related to personal protection, hygiene and health evaluation |                    |
| Wear suitable gloves tested to EN374.<br>Inhalation - minimum efficiency of 95 %      |                    |
| Wear a respirator conforming to EN140.                                                |                    |
| Other conditions affecting workers exposure                                           |                    |
| Body parts exposed                                                                    | : Palm of one hand |
| Indoor or outdoor use                                                                 | : Indoor           |
| Ventilation rate per hour                                                             | : 3 - 5            |

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

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

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

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,001764 mg/kg bw/day |     |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,068576 mg/kg bw/day |     |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,034336 mg/kg bw/day |     |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,411454 mg/kg bw/day |     |

**2.3.6. Worker exposure: Use as laboratory reagent (PROC15)**

| Exposure route | Health effect | Exposure indicator | Exposure estimate     | RCR |
|----------------|---------------|--------------------|-----------------------|-----|
| dermal         |               |                    | 0,010336 mg/kg bw/day |     |

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

For scaling see  
<http://www.ecetoc.org/tra>