

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



WeylClean® SAS 60

Version	Revision Date:	SDS Number:	Print Date: 06.09.2018
4.0	06.09.2018	000010005024	Date of last issue: 24.07.2018
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EN			

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

1.1 Product identifier

Trade name : WeylClean® SAS 60

Substance name : Secondary alkane sulphonate, sodium salt (60% active)

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

Use of the Substance/Mixture : Manufacture of soap and detergents, cleaning and polishing mixtures
Detergent

1.3 Details of the supplier of the safety data sheet

Company : WeylChem Performance Products GmbH
Industriepark Kalle-Albert
Kastelerstr. 45
65203 Wiesbaden
Germany

Telephone : 0611 962 5658

Responsible/issuing person : artur.kessler@weylchem.com

1.4 Emergency telephone number

Telephone : +44 (0) 1235 239 670 (24 H)

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.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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- Hazard pictograms : 
- Signal word : Danger
- Hazard statements : H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P264 Wash hands thoroughly after handling.
- Response:**
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
Sulfonic acids, C14-17-sec-alkane, sodium salts

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1 307-055-2 01-2119489924-20-0000	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	60

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | | |
|-------------------------|---|---|
| General advice | : | Take off all contaminated clothing immediately. |
| If inhaled | : | If inhaled, remove to fresh air.
Get medical advice/ attention. |
| In case of skin contact | : | In case of contact, immediately flush skin with plenty of water. |
| In case of eye contact | : | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| If swallowed | : | Get medical attention immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|-------|---|-------------|
| Risks | : | None known. |
|-------|---|-------------|

4.3 Indication of any immediate medical attention and special treatment needed

- | | | |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | | |
|------------------------------|---|--|
| Suitable extinguishing media | : | Water spray jet
Foam
Carbon dioxide (CO ₂)
Dry powder |
|------------------------------|---|--|

5.2 Special hazards arising from the substance or mixture

- | | | |
|---------------------------------------|---|-----------------|
| Specific hazards during fire-fighting | : | Carbon monoxide |
|---------------------------------------|---|-----------------|

5.3 Advice for firefighters

- | | | |
|---|---|------------------------------------|
| Special protective equipment for firefighters | : | Self-contained breathing apparatus |
|---|---|------------------------------------|

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- | | | |
|----------------------|---|--|
| Personal precautions | : | Wear suitable protective equipment.
For personal protection see section 8.
For disposal considerations see section 13. |
|----------------------|---|--|

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6.2 Environmental precautions

Environmental precautions : Do not allow material to contaminate ground water system.

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).
Flush with water.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle and open container with care.

Advice on protection against fire and explosion : None known.

Hygiene measures : Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.
Take off immediately all contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container.

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place.
Handle and open container with care. Do not freeze.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Other data : No data available

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Sulfonic acids, C14-17-sec-alkane, sodium salts	Workers	Dermal	Acute local effects	2,8 mg/cm ²
	Workers	Dermal	Long-term systemic effects	5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	35 mg/m ³
	Workers	Dermal	Long-term local effects	2,8 mg/cm ²
	General population	Dermal	Acute local effects	2,8 mg/cm ²
	General population	Dermal	Long-term systemic effects	3,57 mg/kg bw/day
	General population	Inhalation	Long-term systemic effects	12,4 mg/m ³
	General population	Oral	Long-term systemic effects	7,1 mg/kg bw/day
	General population	Dermal	Long-term local effects	2,8 mg/cm ²

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

Substance name	Environmental Compartment	Value
Sulfonic acids, C14-17-sec-alkane, sodium salts	Fresh water	0,04 mg/l
	salt water	0,004 mg/l
	Water (intermittent release)	0,06 mg/l
	Fresh water sediment	9,4 mg/kg sediment dw
	Marine sediment	0,94 mg/kg sediment dw
	Soil	9,4 mg/kg soil dw
	Sewage treatment plant	600 mg/l
Oral	53,3 mg/kg food	

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : Long-term exposure
Impervious butyl rubber gloves

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Nitrile rubber
Gloves

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : yellow

Odour : characteristic

pH : ca. 7 (20 °C)
Concentration: 5 g/l
Method: ISO 4316

pour point : not determined

Boiling point/boiling range : > 100 °C

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : GLP: no

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : similar to water

Relative vapour density : No data available

Relative density : No data available

Density : ca. 1,08 g/cm³ (30 °C)
Method: DIN 51757

Solubility(ies)

Water solubility : ca. 500 g/l soluble (25 °C)

Solubility in other solvents : No data available

Partition coefficient: n-oc-
tanol/water : Not applicable

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Ignition temperature : Not applicable

Decomposition temperature : > 250 °C

Viscosity

 Viscosity, dynamic : ca. 7.000 mPa.s (20 °C)

 Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension : No data available

Metal corrosion rate : Not corrosive to metals

Minimum ignition energy : No data available

Particle size : Not applicable

Self-ignition : The substance or mixture is not classified as pyrophoric.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

Stable

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None.

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10.6 Hazardous decomposition products

Stable under recommended storage conditions.
No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Mouse): > 2.000 mg/kg

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Acute oral toxicity : LD50 (Rat): > 500 - 2.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Mouse, female): > 2.000 mg/kg
Method: Expert judgement
GLP: no

Skin corrosion/irritation

Product:

Species: Rabbit
Method: OECD Test Guideline 404
Result: irritating

Serious eye damage/eye irritation

Product:

Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.
The toxicological data has been taken from products of similar composition.

Respiratory or skin sensitisation

Product:

Species: Guinea pig
Result: negative
GLP: no

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : No data available

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Product:

No data available

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Product:

Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Product:

Species: Rat
NOAEL: 200 mg/kg
Application Route: oral (feed)
Method: Other
GLP: no

Species: Mouse
NOAEL: 500 mg/kg
Method: Other
GLP: no

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Aspiration toxicity

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

Toxicity to microorganisms : not determined

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9,81 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 61 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : NOEC (Pseudomonas putida): 600 mg/l
End point: Toxicity to bacteria

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Test Type: Growth inhibition
Method: DIN 38412 T.8
GLP: no

Toxicity to fish (Chronic toxicity) : NOEC: 0,85 mg/l
Exposure time: 28 d
End point: Other
Species: Oncorhynchus mykiss (rainbow trout)
Analytical monitoring: yes
Method: OECD Test Guideline 204
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,36 mg/l
Exposure time: 22 d
End point: Reproduction rate
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to soil dwelling organisms : NOEC: 470 mg/kg
Exposure time: 56 d
End point: reproduction rate
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222
GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Readily biodegradable.

Chemical Oxygen Demand (COD) : 1.510 mg/g

Dissolved organic carbon (DOC) : 322 mg/g

Physico-chemical removability : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no
Readily biodegradable, according to appropriate OECD test.

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Inoculum: activated sludge
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
Readily biodegradable, according to appropriate OECD test.

Test Type: aerobic
Inoculum: activated sludge
Biodegradation: 96,2 %
Exposure time: 34 d
Method: OECD 303A
Readily biodegradable, according to appropriate OECD test.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Not applicable

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Bioaccumulation : Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

Product:

Distribution among environmental compartments : No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

Product:

Additional ecological information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | | |
|------------------------|---|---|
| Product | : | Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. |
| Contaminated packaging | : | Dispose of contents/ container to an approved waste disposal plant. |

SECTION 14: Transport information

14.1 UN 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- | | | |
|----------------------------|---|---|
| Volatile organic compounds | : | Directive 2004/42/EC
Remarks: According to the composition, the product contains no VOC components as defined by Directive 2004/42/EC.

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds
Remarks: According to the composition the product contains no VOC component as defined by Directive 1999/13/EC. |
| Other regulations | : | For further information see eSDS. |

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15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Irrit.	:	Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : Wear suitable protective equipment.

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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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Title of Exposure Scenario	Main User Groups	Sectors of end-use	Chemical product category	Process categories	Environmental Release Categories	Article categories	Ref.
Manufacture	SU 3			PROC1, PROC14, PROC9	ERC1		1
Formulation	SU 3			PROC5, PROC8b, PROC9	ERC2		2
Milling, grinding and similar activities Antistatic agent Polymer additive	SU 3			PROC5, PROC24, PROC8b, PROC9	ERC2		3
Industrial use Washing and cleaning products (including solvent based products) Fabrics, textiles and apparel Leather Metal working fluids	SU 3			PROC5, PROC8b, PROC9	ERC2		4
Additive Emulsion Use in polymer production	SU 3			PROC1, PROC7, PROC8b, PROC9	ERC5		5
Antistatic agent Manufacture of plastic materials	SU 3			PROC3, PROC5, PROC7, PROC13	ERC5		6
Fabrics, textiles and apparel Leather	SU 3			PROC5, PROC13	ERC4		7
Metal working fluids	SU 3			PROC5, PROC13	ERC4		8
Washing and cleaning products (including solvent based products) Machine dishwashing products	SU 21		PC35		ERC8a		9
Laundry products	SU 21		PC35		ERC8a		10
Use in cleaning agents	SU 21		PC35		ERC8a, ERC8d		11
Cosmetics, personal care products	SU 21		PC39		ERC8a		12

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1. Short title of Exposure Scenario: (Ref.: 1) **Manufacture**

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC1:** Use in closed process, no likelihood of exposure
PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental Release Categories : **ERC1:** Manufacture of substances

Use / Activity : Manufacture

2.1 Contributing scenario controlling environmental exposure for: **ERC1: Manufacture of substances**

Activity : Manufacture

Amount used

Daily amount per site : 84507 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 355 per year

Environment factors not influenced by risk management

Flow rate : 4.300.000 m³/d

Other given operational conditions affecting environmental exposure

Air : 0,031 kg/day
Remarks : EUSES
Sewage : 10,99 kg/day
Remarks : EUSES
Waste : 1,27 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : Incineration (Effectiveness (of a measure): > 99 %)
Remarks : Ensure containment of the emission source Continuous process monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

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Flow rate of sewage treatment plant effluent : 7.800 m3/d
Sludge Treatment : No application of sewage sludge to soil

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Disposal methods : (Effectiveness (of a measure): > 999,9 %O)

2.1 Contributing scenario controlling environmental exposure for: ERC1: Manufacture of substances

Activity : Manufacture

Amount used

Daily amount per site : 67309 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 358 per year

Environment factors not influenced by risk management

Flow rate : 130.000.000 m3/d

Other given operational conditions affecting environmental exposure

Air : 0,025 kg/day
Remarks : EUSES
Sewage : 8,75 kg/day
Remarks : EUSES
Waste : 1,01 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : Incineration (Effectiveness (of a measure): > 99 %)
Remarks : Ensure containment of the emission source Continuous process monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 20.000 m3/d
Sludge Treatment : No application of sewage sludge to soil

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Disposal methods : (Effectiveness (of a measure): > 999,9 %O)

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

Activity : Manufacture

Product characteristics

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Remarks : Elevated temperatures
Physical Form (at time of use) : Solid, low dustiness
Remarks : Product packaging Covers use at ambient temperatures.

Frequency and duration of use

Sampling : < 1 min
Remarks : Closed system Continuous process with sample collection
Short-term exposure

Human factors not influenced by risk management

Dermal exposure : Palm of one hand
Exposed skin surface assumed : 240 cm²
Remarks : Sampling Equipment maintenance

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): $\geq 80\%$)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Use closed dosing, transfer, sampling and application systems including connectors.
Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): $\geq 90\%$)

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Note

Material transfers
Indoor

2.4 Contributing scenario controlling worker exposure for: PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

Activity : Manufacture

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Remarks : Elevated temperatures
Physical Form (at time of use) : Solid, low dustiness
Remarks : Product packaging Covers use at ambient temperatures.

Frequency and duration of use

Remarks : Use in closed process, no likelihood of exposure Continuous process no sampling

Human factors not influenced by risk management

Dermal exposure : none
Remarks : no sampling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Use closed dosing, transfer, sampling and application systems including connectors.
Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): $\geq 90\%$)

Note

Material transfers
Indoor

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

Activity : Manufacture

Product characteristics

Chemical name	Concentration [%]
	≤ 93

Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : $< 0,001$ Pa
Remarks : Elevated temperatures
Remarks : Product packaging Covers use at ambient temperatures.

Frequency and duration of use

Exposure duration : > 4 h
Remarks : Continuous process

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Automated task Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): $\geq 80\%$)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Use closed dosing, transfer, sampling and application systems including connectors.
Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,013
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00126 µg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		2,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00071 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00124 mg/kg bw/day	< 0,01
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		150 µg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		0,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						

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	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00105 mg/kg bw/day	< 0,01
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Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,34 mg/kg bw/day	0,07
	ECETOC TRA, Tier 1 used: yes		Inhalation exposure	0,14 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,34 mg/kg bw/day	0,07
	ECETOC TRA, Tier 1 used: yes		Inhalation exposure	0,14 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,69 mg/kg bw/day	0,14
	measured exposure level		Inhalation exposure	0,19 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

Not applicable
Not applicable

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1. Short title of Exposure Scenario: (Ref.: 2) Formulation

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental Release Categories : **ERC2:** Formulation of preparations

Use / Activity : **SU 10:** Formulation

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

Activity : Formulation

Amount used

Daily amount per site : 9830 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 300 per year

Environment factors not influenced by risk management

Flow rate : 4.300.000 m³/d

Other given operational conditions affecting environmental exposure

Air : 0,0035 kg/day
Remarks : EUSES
Sewage : 10,81 kg/day
Remarks : EUSES
Waste : 1,28 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : Incineration (Effectiveness (of a measure): > 99,9 %)
Remarks : Ensure containment of the emission source Continuous process monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being

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used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 7.800 m3/d
Sludge Treatment : No application of sewage sludge to soil

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Disposal methods : (Effectiveness (of a measure): > 999,9 %O)

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

Activity : Formulation

Amount used

Daily amount per site : 7833 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 300 per year

Environment factors not influenced by risk management

Flow rate : 130.000.000 m3/d

Other given operational conditions affecting environmental exposure

Air : 0,0029 kg/day
Remarks : EUSES
Sewage : 8,62 kg/day
Remarks : EUSES
Waste : 1,02 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : Incineration (Effectiveness (of a measure): > 99,9 %)
Remarks : Ensure containment of the emission source Continuous process monitoring To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 20.000 m3/d
Sludge Treatment : No application of sewage sludge to soil

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Disposal methods : (Effectiveness (of a measure): > 999,9 %O)

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Remarks : Elevated temperatures

Frequency and duration of use

Sampling : < 1 min
Remarks : Closed system Continuous process with sample collection
Short-term exposure

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Sampling Equipment maintenance

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): $\geq 80\%$)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Use closed dosing, transfer, sampling and application systems including connectors.
Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

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Note

Material transfers
Indoor

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : > 4 h
Remarks : Continuous process

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Semi-automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Use closed dosing, transfer, sampling and application systems including connectors.
Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0,001 Pa
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : > 4 h
Remarks : Continuous process

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Use closed dosing, transfer, sampling and application systems including connectors.
Filling activities (indoor / outdoor) predominantly via remote controlled devices

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard

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of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,013
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00126 µg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		2,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00071 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00124 mg/kg bw/day	< 0,01
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		150 µg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		0,9 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00070 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00105 mg/kg bw/day	< 0,01

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Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,01
	ECETOC TRA, Tier 1 used: yes		Inhalation exposure	0,08 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation exposure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,01
	measured exposure level		Inhalation exposure	0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

Not applicable
Not applicable

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1. Short title of Exposure Scenario: (Ref.: 3) **Milling, grinding and similar activities, Anti-static agent, Polymer additive**

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC24: High (mechanical) energy work-up of substances bound in materials and/ or articles
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental Release Categories : **ERC2:** Formulation of preparations

Use / Activity : **SU 10:** Formulation

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

Activity : Formulation

Amount used

Daily amount per site : 250 kg/day
Remarks : Antistatic agent
Daily amount per site : 150 kg/day
Remarks : Polymer additive

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 200 per year

Other given operational conditions affecting environmental exposure

Air : 0,000093 kg/day
Remarks : EUSES Antistatic agent
Air : 0,006 kg/day
Remarks : EUSES Polymer additive

Technical conditions and measures / Organizational measures

Air : Incineration (Effectiveness (of a measure): > 99,9 %)
Remarks : Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk manage-

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ment measures in place are being used correctly and operation conditions followed.

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Waste treatment : Landfill Not applicable
Waste treatment : Recycling Not applicable

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) : Solid, high dustiness
Vapour pressure : < 0,001 Pa
Remarks : Covers use at ambient temperatures.

Frequency and duration of use

Exposure duration : 30 min
Frequency of use : 4 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
Use a sampling system designed to control exposure.
Process control / change measures
Use dedicated equipment.
Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): $\geq 90\%$)

Note

Material transfers
Indoor

2.3 Contributing scenario controlling worker exposure for: PROC24: High (mechanical) energy work-up of substances bound in materials and/ or articles

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	≤ 93

Physical Form (at time of use) : Solid, high dustiness
Vapour pressure : $< 0,001$ Pa
Remarks : Covers use at ambient temperatures.

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 4 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): $\geq 80\%$)
Use a sampling system designed to control exposure.
Process control / change measures
Use dedicated equipment.
Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. Respiratory protection necessary at: Equipment cleaning and maintenance (Effectiveness (of a measure): $\geq 90\%$)

Note

Material transfers
Indoor

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	≤ 93

Physical Form (at time of use) : Solid, high dustiness
Vapour pressure : $< 0,001$ Pa
Remarks : Covers use at ambient temperatures.

Frequency and duration of use

Exposure duration : 15 min
Frequency of use : 4 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): $\geq 80\%$)
Use a sampling system designed to control exposure.
Process control / change measures
Use dedicated equipment.
Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard

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of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. disposable one-piece overall without integral hood Respiratory protection complying with EN 143. Mask type: P2 filter

Note

Respiratory protection necessary at:
Material transfers
Filling/ preparation of equipment from drums or containers.
Material transfers
Indoor

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) : Solid, high dustiness
Vapour pressure : < 0,001 Pa
Remarks : Covers use at ambient temperatures.

Frequency and duration of use

Exposure duration : > 4 h
Remarks : Continuous
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Semi-closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
Use a sampling system designed to control exposure.
Process control / change measures
Use dedicated equipment.
Filling and transfer

Organisational measures to prevent /limit releases, dispersion and exposure

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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. disposable one-piece overall without integral hood Respiratory protection complying with EN 143. Mask type: P2 filter

Note

Respiratory protection necessary at:
Material transfers
Filling/ preparation of equipment from drums or containers.
Material transfers
Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
Remarks: Antistatic agent						
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
Remarks: Antistatic agent						
	EUSES, Tier 1 used: no		Soil		0,00137 µg/kg dry weight	< 0,01
Remarks: Antistatic agent						
			STP			0
Remarks: Not applicable as there is no release to wastewater. Antistatic agent						
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given. Antistatic agent						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,0000175 mg/kg bw/day	< 0,01

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Remarks: Antistatic agent						
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
Remarks: Polymer additive						
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
Remarks: Polymer additive						
	EUSES, Tier 1 used: no		Soil		0,000137 µg/kg dry weight	< 0,01
Remarks: Polymer additive						
			STP			
Remarks: Not applicable as there is no release to wastewater. Polymer additive						
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given. Polymer additive						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,000154 mg/kg bw/day	< 0,01
Remarks: Polymer additive						

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,09 mg/kg bw/day	0,02
	ECETOC TRA, Tier 1 used: yes		Inhalation exposure	0,25 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,68 mg/kg bw/day	0,14
	measured exposure level		Inhalation exposure	0,08 mg/m ³	< 0,01
			Human health (combined for		

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			all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,68 mg/kg bw/day	0,14
	ECETOC TRA, Tier 1 used: yes		Inhalation exposure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,68 mg/kg bw/day	0,14
	ECETOC TRA, Tier 1 used: yes		Inhalation exposure	0,20 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 4) Industrial use, Washing and cleaning products (including solvent based products), Fabrics, textiles and apparel, Leather, Metal working fluids

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental Release Categories : **ERC2:** Formulation of preparations

Use / Activity : **SU 10:** Formulation

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

Activity : Formulation

Amount used
Daily amount per site : 100 kg/day

Frequency and duration of use
Continuous exposure : 1 per day
Continuous exposure : 300 per year

Environment factors not influenced by risk management
Flow rate : 18.000 m³/d

Other given operational conditions affecting environmental exposure
Air : 0 kg/day
Sewage : 0,01 kg/day
Waste : 0 kg/day

Technical conditions and measures / Organizational measures
Air : Incineration (Effectiveness (of a measure): > 99,9 %)
Remarks : Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

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Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment : 2.000 m3/d
plant effluent
Sludge Treatment : No application of sewage sludge to soil

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Waste treatment : Landfill Not applicable
Waste treatment : Recycling Not applicable

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : 30 °C

Frequency and duration of use

Exposure duration : 90 min
Sampling : < 1 min
Frequency of use : 10 per day
Remarks : Batch process
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm2)
Exposed skin surface assumed : 480 cm²
Remarks : Sampling Equipment maintenance

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Closed system

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Process control / change measures
Use closed dosing, transfer, sampling and application systems including connectors.
Material transfers

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Remote filling / transfer devices
Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : 30 °C

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 10 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with

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risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Process control / change measures

Use closed dosing, transfer, sampling and application systems including connectors.

Material transfers

Remote filling / transfer devices

Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers

Indoor

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

Activity : Formulation

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : solid
Vapour pressure : < 0,001 Pa
Process Temperature : 30 °C

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 10 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Automated task Remote filling / transfer devices

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Technical conditions and measures

This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Process control / change measures

Use closed dosing, transfer, sampling and application systems including connectors.

With Local Exhaust Ventilation

(Effectiveness (of a measure): $\geq 80\%$)

Material transfers

Remote filling / transfer devices

Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. Effective dust mask

Note

Material transfers

Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	Tier 1 used: no		Fresh water		0,5 µg/l	0,013
Remarks: Only highest exposure levels are given.						
	Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
Remarks: Only highest exposure levels are given.						
	Tier 1 used: no		Soil		1,67 µg/kg dry weight	< 0,01
Remarks: Only highest exposure levels are given.						
	Tier 1 used: no		STP		0,01 µg/l	< 0,01
Remarks: Only highest exposure levels are given.						

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	Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	Tier 1 used: no		Human exposure prediction (oral intake)		0,0000162 mg/kg bw/day	< 0,01
Remarks: Only highest exposure levels are given.						

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ART, Tier 2		Dermal exposure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation exposure	0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ART, Tier 2		Dermal exposure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation exposure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ART, Tier 2		Dermal exposure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation exposure	0,08 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

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ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 5) Additive, Emulsion, Use in polymer production

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC1:** Use in closed process, no likelihood of exposure
PROC7: Industrial spraying
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental Release Categories : **ERC5:** Industrial use resulting in inclusion into or onto a matrix

Use / Activity : Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC5: Industrial use resulting in inclusion into or onto a matrix

Activity : Industrial use

Amount used

: 10 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 300 per year

Other given operational conditions affecting environmental exposure

Air : 0,001 kg/day
Remarks : EUSES
Sewage : 0 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : with cartridge/filter (Effectiveness (of a measure): > 80 %)
Remarks : Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to external treatment of waste for disposal

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Waste treatment : Incineration Not applicable
Waste treatment : Landfill Not applicable
Waste treatment : Recycling Not applicable

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C

Frequency and duration of use

Remarks : Continuous process Use in closed process, no likelihood of exposure

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Use in closed process, no likelihood of exposure

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Continuous monitoring / inspection of process and technical measures and regular maintenance
Transfer via enclosed lines.
Material transfers
Remote filling / transfer devices
Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

2.3 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 93

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C

Frequency and duration of use

Remarks : Continuous process Use in closed process, no likelihood of exposure

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Use in closed process, no likelihood of exposure

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Ensure containment of the emission source
Continuous monitoring / inspection of process and technical measures and regular maintenance
Transfer via enclosed lines.
Material transfers
Remote filling / transfer devices
Automated task
Handle substance within a closed system.
Ensure containment of the emission source

Organisational measures to prevent /limit releases, dispersion and exposure

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Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	< 1

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C

Frequency and duration of use

Exposure duration : > 4 h
Remarks : Continuous process
Frequency of use : 260 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)
This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.
Handle substance within a closed system.
Continuous monitoring / inspection of process and technical measures and regular maintenance

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Transfer via enclosed lines.
Material transfers
Remote filling / transfer devices
Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers
Indoor

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	< 1

Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 10 per day
Frequency of use : 220 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Filling

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities
Remarks : Automated task Remote filling / transfer devices

Technical conditions and measures

With Local Exhaust Ventilation
(Effectiveness (of a measure): >= 80 %)

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This substance should be handled under strictly controlled conditions as specified in REACH regulation article 18(4). Site documentation to support safe handling arrangements in accordance with risk-based management system should be available at each manufacturing site. During the whole lifecycle all necessary measures should be undertaken to minimize emissions and any resulting exposure.

Handle substance within a closed system.

Continuous monitoring / inspection of process and technical measures and regular maintenance

Transfer via enclosed lines.

Material transfers

Remote filling / transfer devices

Automated task

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Material transfers

Indoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00129 µg/kg dry weight	< 0,01
			STP			0
Remarks: Not applicable as there is no release to wastewater.						
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human expo-		0,0000499 mg/kg	< 0,01

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			sure predic- tion (oral in- take)		bw/day	
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Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,001 mg/kg bw/day	< 0,01
	ART, Tier 2		Inhalation exposure	< 0,001 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,001 mg/kg bw/day	< 0,01
	ART, Tier 2		Inhalation exposure	0,001 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation exposure	0,03 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,01
	ART, Tier 2		Inhalation exposure	0,08 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 6) Antistatic agent, Manufacture of plastic materials

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC3:** Use in closed batch process (synthesis or formulation)
PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC7: Industrial spraying
PROC13: Treatment of articles by dipping and pouring

Environmental Release Categories : **ERC5:** Industrial use resulting in inclusion into or onto a matrix

Use / Activity : Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC5: Industrial use resulting in inclusion into or onto a matrix

Activity : Industrial use

Amount used

Daily amount per site : 66,7 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 300 per year

Other given operational conditions affecting environmental exposure

Air : 0,00667 kg/day
Remarks : EUSES
Sewage : 0 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : with cartridge/filter (Effectiveness (of a measure): > 80 %)
Remarks : Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 4

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : >= 200 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : > 4 h
Remarks : Batch process
Frequency of use : 220 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Use in closed process, no likelihood of exposure

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Spraying
Dipping

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 4

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : >= 200 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 2 per day
Frequency of use : 220 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²
Remarks : Use in closed process, no likelihood of exposure

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Spraying
Dipping

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2.4 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 4

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : >= 200 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 2 per day
Frequency of use : 100 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection. If technical measures not practical: Respiratory protection complying with EN 143. Mask type: P2 filter

Note

Spraying
Dipping

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2.5 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 4

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : >= 200 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : > 4 h
Frequency of use : 2 per day
Frequency of use : 10 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

With Local Exhaust Ventilation
and/or
Effective dust mask
Spraying
Dipping

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3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00129 µg/kg dry weight	< 0,01
			STP			0
Remarks: Not applicable as there is no release to wastewater.						
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,000247 mg/kg bw/day	< 0,01

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,03 mg/kg bw/day	< 0,01
	ART, Tier 2		Inhalation exposure	0,02 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,03 mg/kg bw/day	< 0,01
	ART, Tier 2		Inhalation exposure	0,02 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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	ECETOC TRA, Tier 1 used: yes		Dermal exposure	2,14 mg/kg bw/day	0,43
	ART, Tier 2		Inhalation exposure	0,22 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,69 mg/kg bw/day	0,14
	ART, Tier 2		Inhalation exposure	< 0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 7) **Fabrics, textiles and apparel, Leather**

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC13: Treatment of articles by dipping and pouring

Environmental Release Categories : **ERC4:** Industrial use of processing aids in processes and products, not becoming part of articles

Use / Activity : Industrial use

2.1 Contributing scenario controlling environmental exposure for: **ERC4: Industrial use of processing aids in processes and products, not becoming part of articles**

Activity : Industrial use

Amount used

Daily amount per site : 0,66 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 300 per year

Environment factors not influenced by risk management

Flow rate : 18.000 m³/d

Other given operational conditions affecting environmental exposure

Air : 0 kg/day
Remarks : EUSES
Sewage : 0,66 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Remarks : Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2.000 m³/d

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : < 4 h
Frequency of use : 4 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing

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2.3 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 5

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : < 4 h
Frequency of use : 4 per day
Frequency of use : 200 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing

3. Exposure estimation and reference to its source

Environment

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Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,56 µg/l	0,014
	EUSES, Tier 1 used: no		Fresh water sediment		34 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		110 µg/kg dry weight	0,012
	EUSES, Tier 1 used: no		STP		0,66 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00074 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,0000679 mg/kg bw/day	< 0,01

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,014
	ART, Tier 2		Inhalation exposure	0,09 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,69 mg/kg bw/day	0,14
	ART, Tier 2		Inhalation exposure	< 0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

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ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 8) Metal working fluids

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC13: Treatment of articles by dipping and pouring

Environmental Release Categories : **ERC4:** Industrial use of processing aids in processes and products, not becoming part of articles

Use / Activity : Industrial use

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity : Industrial use

Amount used

Daily amount per site : 0,066 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 300 per year

Environment factors not influenced by risk management

Flow rate : 18.000 m³/d

Other given operational conditions affecting environmental exposure

Air : 0 kg/day
Remarks : EUSES
Sewage : < 0,000001 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Technical conditions and measures / Organizational measures

Air : Provide for sufficient ventilation. (Effectiveness (of a measure): > 95 %)

Remarks : Ensure containment of the emission source Continuous process monitoring Ensure operatives are trained to minimise exposures. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to municipal sewage treatment plant

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Flow rate of sewage treatment plant effluent : 2.000 m3/d

Conditions and measures related to external treatment of waste for disposal

Waste treatment : Incineration yes
Waste treatment : Landfill Not applicable
Waste treatment : Recycling Not applicable

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 60

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

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 60

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : < 4 h
Frequency of use : 2 per day
Frequency of use : 100 days/year

Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.

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Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing
Dipping
Wiping

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 5

2.3 Contributing scenario controlling worker exposure for: PROC13: Treatment of articles by dipping and pouring

Activity : Industrial use

Product characteristics

Chemical name	Concentration [%]
	<= 5

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa
Process Temperature : <= 50 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : < 4 h
Frequency of use : 20 per day
Frequency of use : 100 days/year

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Human factors not influenced by risk management

Dermal exposure : Palms of both hands (480 cm²)
Exposed skin surface assumed : 480 cm²

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor activities

Technical conditions and measures

With Local Exhaust Ventilation
Handle substance within a closed system.
Process control / change measures
Continuous process monitoring

Organisational measures to prevent /limit releases, dispersion and exposure

Ensure operatives are trained to minimise exposures. Provide adequate information, instruction and training for operators. Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Assumes a good basic standard of occupational hygiene is implemented. Continuous monitoring / inspection of process and technical measures and regular maintenance

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

Wear suitable gloves (tested to EN374), coverall and eye protection.

Note

Mixing
Dipping
Wiping

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,5 µg/l	0,012
	EUSES, Tier 1 used: no		Fresh water sediment		30 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		0,00127 µg/kg dry weight	< 0,01
	EUSES, Tier 1 used: no		STP		< 0,000001 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,0007 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human expo-		0,0000154 mg/kg	< 0,01

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			sure prediction (oral intake)		bw/day	
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Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,07 mg/kg bw/day	0,014
	ART, Tier 2		Inhalation exposure	0,09 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					
	ECETOC TRA, Tier 1 used: yes		Dermal exposure	0,69 mg/kg bw/day	0,14
	ART, Tier 2		Inhalation exposure	< 0,01 mg/m ³	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 9) Washing and cleaning products (including solvent based products), Machine dishwashing products

Main User Groups : **SU 21:** Consumer uses: Private households (= general public = consumers)

Chemical product category : **PC35:** Washing and cleaning products (including solvent based products)

Environmental Release Categories : **ERC8a:** Wide dispersive indoor use of processing aids in open systems

Use / Activity : Consumer use

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

Activity : Consumer use

Amount used

Amount used per capita : 0,00041 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 365 per year

Other given operational conditions affecting environmental exposure

Air : 0 kg/day
Remarks : EUSES
Sewage : 0,00041 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Conditions and measures related to external treatment of waste for disposal

Remarks : Contain and dispose of waste according to local regulations.

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

Activity : Consumer use

Product characteristics

Concentration of the Substance in Mixture/Article : (undiluted)
Concentration of the Substance in Mixture/Article : solution

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Chemical name	Concentration [%]
	<= 29
	<= 0,2

Physical Form (at time of use) : Liquid
Vapour pressure : 0 Pa
Process Temperature : ca. 45 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : 45 min
Remarks : Short-term exposure
Frequency of use : 3 uses per day
Frequency of use : 1.092 per year

Human factors not influenced by risk management

Dermal exposure : Hands and forearms
: 1980 cm²
Remarks : solution

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Indoor activities

Oral exposure : 100 %
Remarks : solution Worst case assumption

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Child resistant fastenings (EN 862), Dripless seal ensuring drip free pouring, Break-proof packaging material, Identification of the substance or mixture and of the supplier, Advice on safe handling, Information on recycling and methods for disposal for the public, General information on ingredients, Relevant information on health effects and classification and labeling, It is recommended to wear household gloves when handling undiluted product.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,91 µg/l	0,023
	EUSES, Tier 1 used: no		Fresh water sediment		54 µg/kg wet weight	< 0,01
	EUSES, Tier 1		Soil		684 µg/kg	0,073

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	used: no				dry weight	
	EUSES, Tier 1 used: no		STP		4,1 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00099 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,000406 mg/kg bw/day	< 0,01

Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	AISE Reach Exposure Assessment Consumer Tool (REACT), Tier 2		Dermal exposure	0,0002 mg/kg bw/day	< 0,01
			Inhalation exposure		
Remarks: Not relevant because of low vapour pressure.					
	AISE Reach Exposure Assessment Consumer Tool (REACT), Tier 2		Oral exposure	0,0001 mg/kg bw/day	< 0,01
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 10) Laundry products

Main User Groups : **SU 21:** Consumer uses: Private households (= general public = consumers)

Chemical product category : **PC35:** Washing and cleaning products (including solvent based products)

Environmental Release Categories : **ERC8a:** Wide dispersive indoor use of processing aids in open systems

Use / Activity : Consumer use

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

Activity : Consumer use

Amount used

Amount used per capita : 0,00007 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 365 per year

Environment factors not influenced by risk management

Flow rate : 18.000 m³/d

Other given operational conditions affecting environmental exposure

Air : 0 kg/day
Remarks : EUSES
Sewage : 0,00007 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2.000 m³/d

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

Activity : Consumer use

Product characteristics

Chemical name	Concentration [%]
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	used: no		poisoning		mg/kg	
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00007 mg/kg bw/day	< 0,01

Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	AISE Reach Exposure Assessment Consumer Tool (REACT), Tier 2		Dermal exposure	0,0001 mg/kg bw/day	< 0,01
			Inhalation exposure		
Remarks: Not relevant because of low vapour pressure.					
	AISE Reach Exposure Assessment Consumer Tool (REACT)		Oral exposure		
Remarks: Oral exposure is not expected to occur.					
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 11) Use in cleaning agents

Main User Groups : **SU 21:** Consumer uses: Private households (= general public = consumers)

Chemical product category : **PC35:** Washing and cleaning products (including solvent based products)

Environmental Release Categories : **ERC8a:** Wide dispersive indoor use of processing aids in open systems
ERC8d: Wide dispersive outdoor use of processing aids in open systems

Use / Activity : Consumer use

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

Activity : Consumer use

Amount used

Daily amount for wide dispersive uses : 0,00007 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 365 per year

Environment factors not influenced by risk management

Flow rate : 18.000 m3/d

Other given operational conditions affecting environmental exposure

Air : 0 kg/day
Remarks : EUSES
Sewage : 0,00007 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2.000 m3/d

Conditions and measures related to external treatment of waste for disposal

Remarks : Contain and dispose of waste according to local regulations.

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

Activity : Consumer use

Product characteristics

Chemical name	Concentration [%]
	<= 2

Physical Form (at time of use) : Liquid
Vapour pressure : 0 Pa
Process Temperature : ca. 45 °C
Remarks : Elevated temperatures

Frequency and duration of use

Exposure duration : 10 min
Remarks : Short-term exposure
Frequency of use : 1 uses per day
Frequency of use : 220 per year

Human factors not influenced by risk management

Dermal exposure : Hands and forearms
: 1980 cm²
Remarks : solution

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Indoor activities

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Child resistant fastenings (EN 862), Dripless seal ensuring drip free pouring, Break-proof packaging material, Identification of the substance or mixture and of the supplier, Advice on safe handling, Information on recycling and methods for disposal for the public, General information on ingredients, Relevant information on health effects and classification and labeling, It is recommended to wear household gloves when handling undiluted product.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
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	EUSES, Tier 1 used: no		Fresh water		0,57 µg/l	0,014
	EUSES, Tier 1 used: no		Fresh water sediment		34 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		114 µg/kg dry weight	0,012
	EUSES, Tier 1 used: no		STP		0,69 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00075 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00007 mg/kg bw/day	< 0,01

Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
	AISE Reach Exposure Assessment Consumer Tool (REACT), Tier 2		Dermal exposure	0,000063 mg/kg bw/day	< 0,01
	AISE Reach Exposure Assessment Consumer Tool (REACT), Tier 2		Inhalation exposure	0,000012 mg/kg bw/day	< 0,01
Remarks: Spray cleaners					
	AISE Reach Exposure Assessment Consumer Tool (REACT)		Oral exposure		
Remarks: Oral exposure is not expected to occur.					
			Human health (combined for all exposure routes)		
Remarks: The use is assessed to be safe.					

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.

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1. Short title of Exposure Scenario: (Ref.: 12) **Cosmetics, personal care products**

Main User Groups : **SU 21:** Consumer uses: Private households (= general public = consumers)

Chemical product category : **PC39:** Cosmetics, personal care products

Environmental Release Categories : **ERC8a:** Wide dispersive indoor use of processing aids in open systems

Use / Activity : Consumer use

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

Activity : Consumer use

Amount used

Daily amount for wide dispersive uses : 0,00007 kg/day

Frequency and duration of use

Continuous exposure : 1 per day
Continuous exposure : 365 per year

Environment factors not influenced by risk management

Flow rate : 18.000 m³/d

Other given operational conditions affecting environmental exposure

Air : 0 kg/day
Remarks : EUSES
Sewage : 0,00007 kg/day
Remarks : EUSES
Waste : 0 kg/day
Remarks : EUSES

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2.000 m³/d

Conditions and measures related to external treatment of waste for disposal

Remarks : Contain and dispose of waste according to local regulations.

2.2 Contributing scenario controlling consumer exposure for: **PC39: Cosmetics, personal care products**

Activity : Consumer use

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Product characteristics

Chemical name	Concentration [%]
	<= 10

Physical Form (at time of use) : Liquid
Vapour pressure : < 0,001 Pa

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
	EUSES, Tier 1 used: no		Fresh water		0,57 µg/l	0,014
	EUSES, Tier 1 used: no		Fresh water sediment		34 µg/kg wet weight	< 0,01
	EUSES, Tier 1 used: no		Soil		114 µg/kg dry weight	0,012
	EUSES, Tier 1 used: no		STP		0,69 µg/l	< 0,01
	EUSES, Tier 1 used: no		Secondary poisoning		0,00075 mg/kg	< 0,01
Remarks: Only highest exposure levels are given.						
	EUSES, Tier 1 used: no		Human exposure prediction (oral intake)		0,00007 mg/kg bw/day	< 0,01

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

ECHA guidance for downstream users
see section 2 of this exposure scenario.