

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

Melamine

Version 5.0

Revision Date: 23.10.2023

Date of last issue: 28.09.2023

Date of first issue: 15.02.2018

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

1.1 Product identifier

Trade name : Melamine

REACH Registration Number : 01-2119485947-16-0001, 01-2119485947-16-0002, 01-2119485947-16-XXXX

Substance name : 1,3,5-Triazine-2,4,6-Triamine

CAS-No. : 108-78-1

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

Use of the Substance/Mixture : Manufacture of resins, Fire retardant

Recommended restrictions on use : Food/ feedstuff additives

1.3 Details of the supplier of the safety data sheet

Manufacturer, importer, supplier : LAT Nitrogen Linz GmbH
St.-Peter Strasse 25, A-4021 Linz, Austria
Telephone: +43 732 6914-0

LAT Nitrogen Piesteritz GmbH
Möllensdorfer Strasse 13, D-06886 Lutherstadt Wittenberg,
Germany
Telephone: +49 3491 68 2200

E-mail address : sds@lat-nitrogen.com

1.4 Emergency telephone number

+44 (0) 1235 239 670 (NCEC Carechem 24)
0870 600 6266 National Poisons Information Service, UK (24h)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Reproductive toxicity, Category 2

H361f: Suspected of damaging fertility.

Carcinogenicity, Category 2

H351: Suspected of causing cancer.

Specific target organ toxicity - repeated exposure, Category 2, Urinary tract

H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H351 Suspected of causing cancer.
H361f Suspected of damaging fertility.
H373 May cause damage to organs (Urinary tract) through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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Storage:

P405 Store locked up.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : 1,3,5-Triazine-2,4,6-Triamine

CAS-No. : 108-78-1

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
2,4,6-triamino-1,3,5-triazine	108-78-1 203-615-4	>= 99,8

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : Remove to fresh air immediately. Get medical attention immediately.

In case of skin contact : Remove/ Take off immediately all contaminated clothing. Wash off with soap and plenty of water.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If easy to do, remove contact lens, if worn.

If swallowed : If swallowed, DO NOT induce vomiting.

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Rinse mouth with water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation of dust may provoke the following symptoms:
Respiratory irritation
Cough

May irritate eyes.

Ingestion may affect the following organ(s):
Kidney
Bladder

Risks : Suspected of causing cancer.
Suspected of damaging fertility.
May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions.
Hydrogen cyanide (hydrocyanic acid)
Ammonia
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus and protective suit.

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for firefighters

Further information : Standard procedure for chemical fires.
In the event of fire, cool tanks with water spray.
Collect contaminated fire extinguishing water separately. This
must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must
be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.
Avoid breathing dust.
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in
case of product release (dust).
Use personal protective equipment.
In case of strong dust development:
Dust impervious protective suit

6.2 Environmental precautions

Prevent product from entering environment and drains.

6.3 Methods and material for containment and cleaning up

Contain spillage, pick up with a vacuum cleaner or by wet-brushing and transfer to a container
for disposal according to local regulations.
Avoid dust formation.
Dispose of in accordance with local regulations.

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 : Do not breathe dust.
Ensure adequate ventilation.

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In case of dust development use dust mask.
Hazardous decomposition products will be formed at elevated temperatures.

Advice on protection against fire and explosion : Product resists ignition and does not promote flame spread.

Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before eating, drinking, or smoking. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in a dry, cool place. Store in a place accessible by authorized persons only.

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

Further information on storage stability : Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : Not applicable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
2,4,6-triamino-1,3,5-triazine	Workers	Inhalation	Acute systemic effects	82,3 mg/m ³
	Workers	Inhalation	Long-term systemic effects	8,3 mg/m ³
	Workers	Skin contact	Acute systemic effects	117 mg/kg bw/d
	Workers	Skin contact	Long-term systemic effects	11,8 mg/kg bw/d

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	Consumers	Skin contact	Long-term systemic effects	4,2 mg/kg bw/d
	Consumers	Inhalation	Long-term systemic effects	1,5 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	0,42 mg/kg bw/d

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
2,4,6-triamino-1,3,5-triazine	Fresh water	0,51 mg/l
	Marine water	0,051 mg/l
	Intermittent use/release	2 mg/l
	Fresh water sediment	13,06 mg/kg dry weight (d.w.)
	Marine sediment	1,306 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	2,312 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Avoid dust formation.
Provide adequate ventilation.

Personal protective equipment

Eye protection : Safety glasses
(EN 166)

Hand protection

Material : Nitrile rubber
Break through time : >= 480 min
Glove thickness : >= 0,11 mm
Directive : Equipment should conform to EN 374

Remarks : For prolonged or repeated contact use protective gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Wear suitable protective clothing.

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- In case of strong dust development:
Dust impervious protective suit
- Respiratory protection : Wear respiratory protection when its use is identified for certain contributing scenario.
- Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Do not eat, drink or smoke when using this product.
Do not breathe dust.
Wash contaminated clothing before reuse.

Environmental exposure controls

- General advice : Prevent product from entering environment and drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : crystalline, powder
- Colour : white
- Odour : odourless
- pH : 8,0 - 9,5
10% aqueous solution
- Melting point : 361 °C
- Boiling point : Decomposes below the boiling point.
- Flash point : Not applicable
- Flammability (solid, gas) : The product is not flammable.
- Upper explosion limit / Upper flammability limit : Not applicable
(solid)
- Lower explosion limit / Lower flammability limit : Not applicable
(solid)

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Vapour pressure	:	Not applicable (solid)
Relative vapour density	:	Not applicable (solid)
Density	:	1,574 g/cm ³
Bulk density	:	650 - 800 kg/m ³
Solubility(ies)		
Water solubility	:	3,2 g/l slightly soluble (20 °C)
Solubility in other solvents	:	0,3 g/l (30 °C) Solvent: Acetone
		0,6 g/l (30 °C) Solvent: Ethanol
Partition coefficient: n- octanol/water	:	log Pow: -1,22
Auto-ignition temperature	:	Product resists ignition and does not promote flame spread.
Decomposition temperature	:	> 280 °C
Viscosity		
Viscosity, kinematic	:	Not applicable (solid)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Molecular weight	:	126,12 g/mol
Minimum ignition energy	:	> 1,4 kJ Method: VDI 2263-1 not dust explosive

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Particle size : < 90 µm
> 85 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.
Heating can release hazardous gases.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Under fire conditions:
Ammonia
Nitrogen oxides (NOx)
Hydrogen cyanide (hydrocyanic acid)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity : LD50 (Rat, male): 3161 mg/kg bw

Acute inhalation toxicity : LC50 (Rat, male and female): > 5190

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): > 1000 mg/kg bw

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Exposure time : 72 h
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

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Test system: Chinese hamster ovary cells

Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Mouse (male)
Strain: B6C3F1
Result: negative

Carcinogenicity

Suspected of causing cancer.

Product:

Species : Rat, male
Application Route : Oral
LOAEL : 126 mg/kg bw/day
Target Organs : Urinary bladder
Remarks : In animal studies carcinomas were observed at high doses in the bladder of male rats, caused by the formation of bladder stones and their constant irritation, NOAEL = 126 mg/kg bw/d.

Reproductive toxicity

Suspected of damaging fertility.

Product:

Effects on foetal development : Species: Rat
Teratogenicity: NOAEL: 400 mg/kg bw/day
Method: OECD Test Guideline 414
Result: No teratogenic effects

Species: Rabbit
Developmental Toxicity: NOAEL: 150 mg/kg bw/day
Method: OECD Test Guideline 414
Result: No adverse effects

STOT - single exposure

Based on available data, the classification criteria are not met.

STOT - repeated exposure

May cause damage to organs (Urinary tract) through prolonged or repeated exposure.

Repeated dose toxicity

Product:

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Species : Rat, male and female
NOAEL : 72 mg/kg bw/day
Application Route : Oral
Target Organs : Bladder, Kidney
Assessment : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

Not applicable

Components:

2,4,6-triamino-1,3,5-triazine:

Not applicable

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Rainbow trout): > 3.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 200 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Fresh water

Toxicity to algae/aquatic plants : NOEC (Selenastrum capricornutum (green algae)): 98 mg/l
End point: Growth inhibition
Exposure time: 96 h
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC: 5,1 mg/l
Exposure time: 36 d
Remarks: Fresh water

Toxicity to daphnia and other : NOEC: 11 mg/l

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aquatic invertebrates
(Chronic toxicity)

Exposure time: 21 d
Species: Daphnia (water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: Fresh water

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.
Not inherently biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 3,8
Remarks: Bioaccumulation not expected.

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Medium: Soil
log Koc: 2,3
Method: OECD Test Guideline 106

Medium: Water
Remarks: 94%

Medium: Air
Remarks: 6%

12.5 Results of PBT and vPvB assessment

Product:

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

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12.6 Other adverse effects

Product:

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

Additional ecological information : Do not allow product to reach ground water, water bodies or sewage system.
Spillage of even small amounts can lead to pollution of drinking water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of together with household waste.
Do not allow product to reach ground water, water bodies or sewage system.
Contact the proper local authorities.

European waste code:
16 05 08* (discarded organic chemicals consisting of or containing dangerous substances)

Contaminated packaging : Empty remaining contents.
Dispose of in accordance with local regulations.

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

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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

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN,
IMDG-Code, ICAO/IATA-DGR

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : 2,4,6-triamino-1,3,5-triazine

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

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SECTION 16: Other information

Full text of other abbreviations

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

Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : Issued according to Regulation (EC) No 1907/2006, Annex II,

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and its amendments.

Sources of key data used to compile the Safety Data Sheet : Chemical Safety Report, Melamine. Melamine REACH Consortium, 2023

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However we do not assume any warranty and liability whatsoever for the accuracy and completeness of such information.

We herewith also do not make any representation or warranty of merchantability of our products or their fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

The information contained herein relates exclusively to our products when not used in conjunction with any third party materials. No liability can be accepted especially in respect of the use of our products in conjunction with other material or substance.

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Annex: Exposure Scenarios

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Number	Title
ES1	Formulation or re-packing, Formulation & (re)packing of substances and mixtures; Adhesives, sealants (PC1); Coatings and paints, thinners, paint removers (PC9a); Laboratory chemicals (PC21); Leather treatment products (PC23); Polymer preparations and compounds (PC32); Washing and cleaning products (PC35)
ES2	Use at industrial sites, Use as monomer (intermediate) for melamine based resins production; Adhesives, sealants (PC1); Coatings and paints, thinners, paint removers (PC9a); Fillers, putties, plasters, modelling clay (PC9b); Finger paints (PC9c); Ink and toners (PC18); Laboratory chemicals (PC21); Leather treatment products (PC23); Polymer preparations and compounds (PC32); Washing and cleaning products (PC35); Cosmetics, personal care products (PC39); Agriculture, forestry, fishery (SU1); Mining, (without offshore industries) (SU2a); Manufacture of textiles, leather, fur (SU5); Manufacture of wood and wood products (SU6a); Manufacture of pulp, paper and paper products (SU6b); Manufacture of bulk, large scale chemicals (including petroleum products) (SU8); Manufacture of fine chemicals (SU9); Manufacture of rubber products (SU11); Manufacture of plastics products, including compounding and conversion (SU12); Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of furniture (SU18); Building and construction work (SU19)
ES3	Use at industrial sites, Use as monomer (intermediate) in melamine based resins before curing; Polymer preparations and compounds (PC32)
ES4	Use at industrial sites, Use as intermediate for the production of other substances; Polymer preparations and compounds (PC32); Cosmetics, personal care products (PC39); Manufacture of bulk, large scale chemicals (including petroleum products) (SU8)
ES5	Use at industrial sites, Use as additive in foams; Laboratory chemicals (PC21); Polymer preparations and compounds (PC32); Manufacture of rubber products (SU11); Manufacture of plastics products, including compounding and conversion (SU12); Manufacture of furniture (SU18)
ES6	Use at industrial sites, Use as additive in intumescent coatings; Coatings and paints, thinners, paint removers (PC9a); Polymer preparations and compounds (PC32); Manufacture of plastics products, including compounding and conversion (SU12); General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment (SU17); Building and construction work (SU19)
ES7	Widespread use by professional workers, Use as additive in intumescent coatings; Coatings

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	and paints, thinners, paint removers (PC9a); Laboratory chemicals (PC21); Polymer preparations and compounds (PC32); Manufacture of plastics products, including compounding and conversion (SU12); Building and construction work (SU19)
ES8	Service life - workers, PU foams - Workers (industrial); ; Vehicles covered by End of Life Vehicles (ELV) directive (AC1a); ; Plastic articles (AC13); ; Other plastic articles (AC13g)
ES9	Service life - workers, Intumescent coatings - Workers (industrial); ; Fabrics, textiles and apparel: Large surface area articles (AC5a); ; Metal articles: Large surface area articles (AC7a); ; Plastic articles (AC13)
ES10	Service life - workers, Intumescent coatings - Professional Workers; ; Fabrics, textiles and apparel: Large surface area articles (AC5a); ; Metal articles: Large surface area articles (AC7a); ; Plastic articles (AC13)
ES11	Service life - consumers, PU foams - Consumers; ; Plastic articles (AC13)
ES12	Service life - consumers, Intumescent coatings - Consumers; ; Plastic articles (AC13)

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ES1: Formulation & (re)packing of substances and mixtures

1.1. Title section

Structured Short Title	: Formulation or re-packing, Formulation & (re)packing of substances and mixtures; Adhesives, sealants (PC1).; Coatings and paints, thinners, paint removers (PC9a).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Polymer preparations and compounds (PC32).; Washing and cleaning products (PC35).
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Environment		
CS1	Formulation & (re)packing of substances and mixtures	ERC2
Worker		
CS2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS4	Chemical production where opportunity for exposure arises	PROC4
CS5	Mixing or blending in batch processes (solid)	PROC5
CS6	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (solid)	PROC8a
CS7	Transfer of substance or mixture (charging/discharging) at dedicated facilities (solid)	PROC8b
CS8	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS9	Tabletting, compression, extrusion, pelettisation, granulation	PROC14
CS10	Use as laboratory reagent (solid)	PROC15
CS11	Manual activities involving hand contact (solid)	PROC19
CS12	Manual maintenance (cleaning and repair) of machinery (solid)	PROC28

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CS13	Mixing or blending in batch processes (liquid)	PROC5
CS14	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (liquid)	PROC8a
CS15	Transfer of substance or mixture (charging/discharging) at dedicated facilities (liquid)	PROC8b
CS16	Use as laboratory reagent (liquid)	PROC15
CS17	Manual activities involving hand contact (liquid)	PROC19
CS18	Manual maintenance (cleaning and repair) of machinery (liquid)	PROC28

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
Additional information on STP	: Biological elimination
STP sludge treatment	: Controlled application of sewage sludge to agricultural soil
STP effluent	: 2.000 m ³ /d
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18.000 m ³ /d
Local freshwater dilution factor	: 10

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

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Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

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Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

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Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.	

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Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

1.2.9. Control of worker exposure:Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers exposure up to 4 hrs
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use

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Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

1.2.12. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (solid) (PROC28)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, high dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.

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Ensure daily cleaning of the equipment.

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

Product (article) characteristics
Covers concentrations up to 30 %
Physical form of product : Liquid
Amount used, frequency and duration of use (or from service life)
Duration : Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Temperature : 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.

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

Product (article) characteristics
Covers concentrations up to 30 %

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Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	

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Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Product (article) characteristics

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Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

1.2.18. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (liquid) (PROC28)

Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Release route	Release rate	Release estimation method
Water	5 kg/day	Estimated release factor
Air	1 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,244 mg/L (EUSES)	0,478
Freshwater sediment	6,242 mg/kg dry weight (EUSES)	0,478
Marine water	0,024 mg/L (EUSES)	0,478
Marine sediment	0,624 mg/kg dry weight (EUSES)	0,478

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Sewage treatment plant	2,433 mg/L (EUSES)	0,024
Agricultural soil	1,727 mg/kg dry weight (EUSES)	0,747
Man via environment - Inhalation	0,000228 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,023 mg/kg bw/day (EUSES)	0,054
combined routes		0,054

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,176	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,058	
combined routes	systemic	long-term		0,179	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	

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dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,353	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

1.3.9. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
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inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	3,43 mg/kg bw/day (ECETOC TRA worker v3)	0,291	
combined routes	systemic	long-term		0,411	

1.3.10. Worker exposure: Use as laboratory reagent (solid) (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,029	
combined routes	systemic	long-term		0,089	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3 mg/m ³ (ECETOC TRA worker v3)	0,361	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	7,072 mg/kg bw/day (ECETOC TRA worker v3)	0,599	
combined routes	systemic	long-term		0,961	

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1.3.12. Worker exposure: Manual maintenance (cleaning and repair) of machinery (solid) (PROC28)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	> 0,01	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³	> 0,01	

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			(ECETOC TRA worker v3)		
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	> 0,01	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

1.3.16. Worker exposure: Use as laboratory reagent (liquid) (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	> 0,01	
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,029	
combined routes	systemic	long-term		0,092	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1,74 mg/m ³ (Stoffenmanager v4.0)	0,21	
inhalative	systemic	short-term	1,74 mg/m ³ (Stoffenmanager v4.0)	0,021	
dermal	systemic	long-term	7,072 mg/kg bw/day (ECETOC TRA worker v3)	0,599	
combined routes	systemic	long-term		0,809	

1.3.18. Worker exposure: Manual maintenance (cleaning and repair) of machinery (liquid) (PROC28)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	> 0,01	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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Additional information available from:

<https://lat-web-prod-storage->

[cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

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ES2: Use as monomer (intermediate) for melamine based resins production

2.1. Title section

Structured Short Title	: Use at industrial sites, Use as monomer (intermediate) for melamine based resins production; Adhesives, sealants (PC1).; Coatings and paints, thinners, paint removers (PC9a).; Fillers, putties, plasters, modelling clay (PC9b).; Finger paints (PC9c).; Ink and toners (PC18).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Polymer preparations and compounds (PC32).; Washing and cleaning products (PC35).; Cosmetics, personal care products (PC39).; Agriculture, forestry, fishery (SU1).; Mining, (without offshore industries) (SU2a).; Manufacture of textiles, leather, fur (SU5).; Manufacture of wood and wood products (SU6a).; Manufacture of pulp, paper and paper products (SU6b).; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of fine chemicals (SU9).; Manufacture of rubber products (SU11).; Manufacture of plastics products, including compounding and conversion (SU12).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13).; Manufacture of furniture (SU18).; Building and construction work (SU19).
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Environment		
CS1	Use as monomer (intermediate) for melamine based resins production	ERC6a, ERC6c
Worker		
CS2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3

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CS5	Chemical production where opportunity for exposure arises	PROC4
CS6	Mixing or blending in batch processes	PROC5
CS7	Calendering operations	PROC6
CS8	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (solid)	PROC8a
CS9	Transfer of substance or mixture (charging/discharging) at dedicated facilities (solid)	PROC8b
CS10	Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (solid)	PROC9
CS11	Tabletting, compression, extrusion, pelettisation, granulation	PROC14
CS12	Use as laboratory reagent	PROC15
CS13	Manual maintenance (cleaning and repair) of machinery	PROC28
CS14	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (liquid)	PROC8a
CS15	Transfer of substance or mixture (charging/discharging) at dedicated facilities (liquid)	PROC8b
CS16	Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (liquid)	PROC9

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Use of intermediate (ERC6a) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
Additional information on STP	: Biological elimination
STP sludge treatment	: Controlled application of sewage sludge to agricultural soil
STP effluent	: 2.000 m ³ /d

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Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m³/d

Local freshwater dilution factor : 10

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

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Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

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Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

2.2.7. Control of worker exposure:Calendering operations (PROC6)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

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Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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2.2.11. Control of worker exposure:Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use

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Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.

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Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 10 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Use of intermediate (ERC6a) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

Release route	Release rate	Release estimation method
Water	3 kg/day	Estimated release factor
Air	0,5 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,147 mg/L (EUSES)	0,287
Freshwater sediment	3,751 mg/kg dry weight (EUSES)	0,287
Marine water	0,015 mg/L (EUSES)	0,287
Marine sediment	0,375 mg/kg dry weight (EUSES)	0,287
Sewage treatment plant	1,46 mg/L (EUSES)	0,015
Agricultural soil	1,032 mg/kg dry weight (EUSES)	0,446
Man via environment - Inhalation	0,000114 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,013 mg/kg bw/day (EUSES)	0,031
combined routes		0,031

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,01 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
inhalative	systemic	short-term	0,04 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	0,034 mg/kg	< 0,01	

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			bw/day (ECETOC TRA worker v3)		
combined routes	systemic	long-term		< 0,01	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,176	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,058	
combined routes	systemic	long-term		0,179	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
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inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

2.3.7. Worker exposure: Calendering operations (PROC6)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,353	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³	0,243	

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			(ECETOC TRA worker v3)		
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

2.3.11. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	3,43 mg/kg bw/day (ECETOC TRA worker v3)	0,291	
combined routes	systemic	long-term		0,411	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,029	
combined routes	systemic	long-term		0,089	

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

Exposure route	Health effect	Exposure	Exposure level	RCR	Remarks
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		indicator			
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,315 mg/m ³ (ECETOC TRA worker v3)	0,038	
inhalative	systemic	short-term	0,315 mg/m ³ (ECETOC TRA worker v3)	> 0,01	
dermal	systemic	long-term	8,226 mg/kg bw/day (ECETOC TRA worker v3)	0,697	
combined routes	systemic	long-term		0,735	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,315 mg/m ³ (ECETOC TRA worker v3)	0,038	
inhalative	systemic	short-term	0,315 mg/m ³ (ECETOC TRA worker v3)	> 0,01	

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			worker v3)		
dermal	systemic	long-term	8,226 mg/kg bw/day (ECETOC TRA worker v3)	0,697	
combined routes	systemic	long-term		0,735	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,315 mg/m ³ (ECETOC TRA worker v3)	0,038	
inhalative	systemic	short-term	0,315 mg/m ³ (ECETOC TRA worker v3)	> 0,01	
dermal	systemic	long-term	4,114 mg/kg bw/day (ECETOC TRA worker v3)	0,349	
combined routes	systemic	long-term		0,387	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

Additional information available from:

[https://lat-web-prod-storage-](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

[cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

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ES3: Use as monomer (intermediate) in melamine based resins before curing

3.1. Title section

Structured Short Title : Use at industrial sites, Use as monomer (intermediate) in melamine based resins before curing; Polymer preparations and compounds (PC32).

Environment		
CS1	Use as monomer (intermediate) in melamine based resins before curing	ERC6c
Worker		
CS2	Calendering operations	PROC6
CS3	Industrial spraying	PROC7
CS4	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (liquid)	PROC8a
CS5	Transfer of substance or mixture (charging/discharging) at dedicated facilities (liquid)	PROC8b
CS6	Roller application or brushing	PROC10
CS7	Manual activities involving hand contact	PROC19
CS8	Manual maintenance (cleaning and repair) of machinery	PROC28
CS9	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (solid)	PROC8a
CS10	Transfer of substance or mixture (charging/discharging) at dedicated facilities (solid)	PROC8b

3.2. Conditions of use affecting exposure

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

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Conditions and measures related to sewage treatment plant

STP type	:	Municipal Sewage Treatment Plant
Additional information on STP	:	Biological elimination
STP sludge treatment	:	Controlled application of sewage sludge to agricultural soil
STP effluent	:	2.000 m ³ /d

Other conditions affecting environmental exposure

Receiving surface water flow	:	18.000 m ³ /d
Local freshwater dilution factor	:	10

3.2.2. Control of worker exposure:Calendering operations (PROC6)

Product (article) characteristics

Covers concentrations up to 10 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

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Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

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Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 120 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 10 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid

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Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use

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Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 10 %

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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3.3. Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Water	0,5 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,025 mg/L (EUSES)	0,049
Freshwater sediment	0,638 mg/kg dry weight (EUSES)	0,049
Marine water	0,0025 mg/L (EUSES)	0,049
Marine sediment	0,064 mg/kg dry weight (EUSES)	0,049
Sewage treatment plant	0,243 mg/L (EUSES)	< 0,01
Agricultural soil	0,169 mg/kg dry weight (EUSES)	0,073
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,0016 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

3.3.2. Worker exposure: Calendering operations (PROC6)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,315 mg/m ³ (ECETOC TRA worker v3)	0,038	
inhalative	systemic	short-term	0,315 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	3,291 mg/kg bw/day (ECETOC)	0,279	

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			TRA worker v3)		
combined routes	systemic	long-term		0,317	

3.3.3. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3,85 mg/m ³ (Stoffenmanager v5.6.10)	0,464	
inhalative	systemic	short-term	3,85 mg/m ³ (Stoffenmanager v5.6.10)	0,047	
dermal	systemic	long-term	5,143 mg/kg bw/day (ECETOC TRA worker v3)	0,436	
combined routes	systemic	long-term		0,9	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,315 mg/m ³ (ECETOC TRA worker v3)	0,038	
inhalative	systemic	short-term	0,315 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	8,226 mg/kg bw/day (ECETOC TRA worker v3)	0,697	
combined routes	systemic	long-term		0,735	

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

Exposure route	Health effect	Exposure	Exposure level	RCR	Remarks
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		indicator			
inhalative	systemic	long-term	0,38 mg/m ³ (Stoffenmanager v5.6.10)	0,046	
inhalative	systemic	short-term	0,38 mg/m ³ (Stoffenmanager v5.6.10)	< 0,01	
dermal	systemic	long-term	8,226 mg/kg bw/day (ECETOC TRA worker v3)	0,697	
combined routes	systemic	long-term		0,743	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1,74 mg/m ³ (Stoffenmanager v5.6.10)	0,21	
inhalative	systemic	short-term	1,74 mg/m ³ (Stoffenmanager v5.6.10)	0,021	
dermal	systemic	long-term	3,29 mg/kg bw/day (ECETOC TRA worker v3)	0,279	
combined routes	systemic	long-term		0,488	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,84 mg/m ³ (Stoffenmanager v5.6.10)	0,101	
inhalative	systemic	short-term	0,84 mg/m ³ (Stoffenmanager v5.6.10)	0,01	

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dermal	systemic	long-term	8,486 mg/kg bw/day (ECETOC TRA worker v3)	0,719	
combined routes	systemic	long-term		0,82	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,315 mg/m ³ (ECETOC TRA worker v3)	0,038	
inhalative	systemic	short-term	0,315 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	8,226 mg/kg bw/day (ECETOC TRA worker v3)	0,697	
combined routes	systemic	long-term		0,735	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3 mg/m ³ (ECETOC TRA worker v3)	0,361	
inhalative	systemic	short-term	12 mg/m ³ (ECETOC TRA worker v3)	0,146	
dermal	systemic	long-term	1,645 mg/kg bw/day (ECETOC TRA worker v3)	0,139	
combined routes	systemic	long-term		0,501	

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

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,6 mg/m ³ (ECETOC TRA worker v3)	0,072	
inhalative	systemic	short-term	2,4 mg/m ³ (ECETOC TRA worker v3)	0,029	
dermal	systemic	long-term	8,226 mg/kg bw/day (ECETOC TRA worker v3)	0,607	
combined routes	systemic	long-term		0,769	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

Additional information available from:

[https://lat-web-prod-storage-](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

[cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

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ES4: Use as intermediate for the production of other substances

4.1. Title section

Structured Short Title : Use at industrial sites, Use as intermediate for the production of other substances; Polymer preparations and compounds (PC32).; Cosmetics, personal care products (PC39).; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).

Environment		
CS1	Use as intermediate for the production of other substances	ERC6a
Worker		
CS2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS5	Chemical production where opportunity for exposure arises	PROC4
CS6	Mixing or blending in batch processes	PROC5
CS7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS8	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS10	Use as laboratory reagent	PROC15
CS11	Manual maintenance (cleaning and repair) of machinery	PROC28

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4.2. Conditions of use affecting exposure

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

Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
Additional information on STP	: Biological elimination
STP sludge treatment	: Controlled application of sewage sludge to agricultural soil
STP effluent	: 2.000 m ³ /d
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18.000 m ³ /d
Local freshwater dilution factor	: 10

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	

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Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 10 %

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

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Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 10 %

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	

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Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	

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Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines.	

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Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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4.3. Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Water	3 kg/day	Estimated release factor
Air	0,5 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,147 mg/L (EUSES)	0,287
Freshwater sediment	3,751 mg/kg dry weight (EUSES)	0,287
Marine water	0,015 mg/L (EUSES)	0,287
Marine sediment	0,375 mg/kg dry weight (EUSES)	0,287
Sewage treatment plant	1,46 mg/L (EUSES)	0,015
Agricultural soil	1,011 mg/kg dry weight (EUSES)	0,437
Man via environment - Inhalation	0,0000114 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,00921 mg/kg bw/day (EUSES)	0,022
combined routes		0,022

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,01 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
inhalative	systemic	short-term	0,04 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC)	< 0,01	

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			TRA worker v3)		
combined routes	systemic	long-term		< 0,01	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,176	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,058	
combined routes	systemic	long-term		0,179	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
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inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	

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combined routes	systemic	long-term		0,835	
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4.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,353	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	

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inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,029	
combined routes	systemic	long-term		0,089	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

Additional information available from:

[https://lat-web-prod-storage-](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

[cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf](https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf)

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ES5: Use as additive in foams

5.1. Title section

Structured Short Title : Use at industrial sites, Use as additive in foams; Laboratory chemicals (PC21).; Polymer preparations and compounds (PC32).; Manufacture of rubber products (SU11).; Manufacture of plastics products, including compounding and conversion (SU12).; Manufacture of furniture (SU18).

Environment		
CS1	Use as additive in foams	ERC5
Worker		
CS2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS3	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	PROC2
CS4	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS5	Chemical production where opportunity for exposure arises	PROC4
CS6	Mixing or blending in batch processes	PROC5
CS7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS8	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS10	Use as laboratory reagent	PROC15
CS11	Manual activities involving hand contact	PROC19
CS12	Manual maintenance (cleaning and repair) of machinery	PROC28

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5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
Additional information on STP	: Biological elimination
STP sludge treatment	: Controlled application of sewage sludge to agricultural soil
STP effluent	: 2.000 m ³ /d
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18.000 m ³ /d
Local freshwater dilution factor	: 10

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

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Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained

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personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

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Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

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Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	

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Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers exposure up to 4 hrs
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 95 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

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Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours (unless stated differently).
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

Release route	Release rate	Release estimation method
Water	3 kg/day	Estimated release factor

LAT Nitrogen Austria GmbH | St. Peter-Strasse 25 | 4021 Linz | Austria
Telephone +43 732 6915 0
FN 257746p | Regional Court of Linz | Website www.lat-nitrogen.com

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Air	0,5 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,147 mg/L (EUSES)	0,287
Freshwater sediment	3,751 mg/kg dry weight (EUSES)	0,287
Marine water	0,015 mg/L (EUSES)	0,287
Marine sediment	0,375 mg/kg dry weight (EUSES)	0,287
Sewage treatment plant	1,46 mg/L (EUSES)	0,015
Agricultural soil	1,011 mg/kg dry weight (EUSES)	0,437
Man via environment - Inhalation	0,0000114 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,00921 mg/kg bw/day (EUSES)	0,022
combined routes		0,022

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,01 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
inhalative	systemic	short-term	0,04 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	0,034 mg/kg bw/day (ECETOC TRA worker v3)	< 0,01	
combined routes	systemic	long-term		< 0,01	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
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inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	1,37 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,176	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,058	
combined routes	systemic	long-term		0,179	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	

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combined routes	systemic	long-term		0,719	
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5.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	

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inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,353	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,029	
combined routes	systemic	long-term		0,089	

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

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3 mg/m ³ (ECETOC TRA worker v3)	0,361	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	7,072 mg/kg bw/day (ECETOC TRA worker v3)	0,599	
combined routes	systemic	long-term		0,961	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

Additional information available from:

<https://lat-web-prod-storage-cdn.azureedge.net/nitrogenblob/storage/local/unMlcCNEco1jAEuzdf0ibZWRKBU7y19BBhYUxt7f.pdf>

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ES6: Use as additive in intumescent coatings

6.1. Title section

Structured Short Title	: Use at industrial sites, Use as additive in intumescent coatings; Coatings and paints, thinners, paint removers (PC9a); Polymer preparations and compounds (PC32); Manufacture of plastics products, including compounding and conversion (SU12); General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment (SU17); Building and construction work (SU19).
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Environment		
CS1	Use as additive in intumescent coatings	ERC5
Worker		
CS2	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS3	Chemical production where opportunity for exposure arises	PROC4
CS4	Mixing or blending in batch processes	PROC5
CS5	Industrial spraying (with Local Exhaust Ventilation)	PROC7
CS6	Industrial spraying (without Local Exhaust Ventilation)	PROC7
CS7	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (solid)	PROC8a
CS8	Transfer of substance or mixture (charging/discharging) at dedicated facilities (solid)	PROC8b
CS9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS10	Roller application or brushing	PROC10
CS11	Treatment of articles by dipping and pouring	PROC13
CS12	Use as laboratory reagent	PROC15

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CS13	Manual activities involving hand contact	PROC19
CS14	Manual maintenance (cleaning and repair) of machinery (solid)	PROC28
CS15	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (liquid)	PROC8a
CS16	Transfer of substance or mixture (charging/discharging) at dedicated facilities (liquid)	PROC8b
CS17	Manual maintenance (cleaning and repair) of machinery (liquid)	PROC28

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
Additional information on STP	: Biological elimination
STP sludge treatment	: Controlled application of sewage sludge to agricultural soil
STP effluent	: 2.000 m ³ /d
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18.000 m ³ /d
Local freshwater dilution factor	: 10

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

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Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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6.2.5. Control of worker exposure:Industrial spraying (with Local Exhaust Ventilation) (PROC7)

Product (article) characteristics
Covers concentrations up to 30 %
Physical form of product : Liquid
Amount used, frequency and duration of use (or from service life)
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Local exhaust ventilation Inhalation - minimum efficiency of 95 %
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Temperature : 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.

6.2.6. Control of worker exposure:Industrial spraying (without Local Exhaust Ventilation) (PROC7)

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Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Respiratory protection Inhalation - minimum efficiency of 90 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also

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be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics
Covers concentrations up to 30 %
Physical form of product : Liquid
Amount used, frequency and duration of use (or from service life)
Duration : Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Temperature : 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.

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

Product (article) characteristics
Covers percentage substance in the product up to 100 %.
Physical form of product : Solid, medium dustiness

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 95 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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6.2.14. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (solid) (PROC28)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 30 %	

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Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	

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Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

6.2.17. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (liquid) (PROC28)

Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	

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Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

Release route	Release rate	Release estimation method
Water	3 kg/day	Estimated release factor
Air	0,5 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,147 mg/L (EUSES)	0,287
Freshwater sediment	3,751 mg/kg dry weight (EUSES)	0,287
Marine water	0,015 mg/L (EUSES)	0,287
Marine sediment	0,375 mg/kg dry weight (EUSES)	0,287
Sewage treatment plant	1,46 mg/L (EUSES)	0,015
Agricultural soil	1,032 mg/kg dry weight (EUSES)	0,446
Man via environment - Inhalation	0,0000114 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,013 mg/kg bw/day (EUSES)	0,031
combined routes		0,031

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	0,69 mg/kg bw/day (ECETOC TRA worker v3)	0,058	
combined routes	systemic	long-term		0,179	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg bw/day (ECETOC TRA worker v3)	0,116	
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	

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dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

6.3.5. Worker exposure: Industrial spraying (with Local Exhaust Ventilation) (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,4 mg/m ³ (Stoffenmanager v5.6.10)	0,048	
inhalative	systemic	short-term	0,4 mg/m ³ (Stoffenmanager v5.6.10)	> 0,01	
dermal	systemic	long-term	8,572 mg/kg bw/day (ECETOC TRA worker v3)	0,726	
combined routes	systemic	long-term		0,775	

6.3.6. Worker exposure: Industrial spraying (without Local Exhaust Ventilation) (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,795 mg/m ³ (Stoffenmanager v5.6.10)	0,096	
inhalative	systemic	short-term	0,795 mg/m ³ (Stoffenmanager v5.6.10)	> 0,01	
dermal	systemic	long-term	8,572 mg/kg bw/day (ECETOC TRA worker v3)	0,726	
combined routes	systemic	long-term		0,822	

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

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Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,353	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	1,372 mg/kg	0,116	

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			bw/day (ECETOC TRA worker v3)		
combined routes	systemic	long-term		0,719	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3,59 mg/m ³ (Stoffenmanager v5.6.10)	0,433	
inhalative	systemic	short-term	3,59 mg/m ³ (Stoffenmanager v5.6.10)	0,044	
dermal	systemic	long-term	5,486 mg/kg bw/day (ECETOC TRA worker v3)	0,465	
combined routes	systemic	long-term		0,897	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
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inhalative	systemic	long-term	0,5 mg/m ³ (ECETOC TRA worker v3)	0,06	
inhalative	systemic	short-term	2 mg/m ³ (ECETOC TRA worker v3)	0,024	
dermal	systemic	long-term	0,34 mg/kg bw/day (ECETOC TRA worker v3)	0,029	
combined routes	systemic	long-term		0,089	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1,74 mg/m ³ (Stoffenmanager v5.6.10)	0,21	
inhalative	systemic	short-term	1,74 mg/m ³ (Stoffenmanager v5.6.10)	0,021	
dermal	systemic	long-term	7,072 mg/kg bw/day (ECETOC TRA worker v3)	0,599	
combined routes	systemic	long-term		0,809	

6.3.14. Worker exposure: Manual maintenance (cleaning and repair) of machinery (solid) (PROC28)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,742 mg/kg bw/day (ECETOC TRA worker v3)	0,232	

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combined routes	systemic	long-term		0,835	
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6.3.15. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (liquid) (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

6.3.17. Worker exposure: Manual maintenance (cleaning and repair) of machinery (liquid) (PROC28)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
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inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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ES7: Use as additive in intumescent coatings

7.1. Title section

Structured Short Title : Widespread use by professional workers, Use as additive in intumescent coatings; Coatings and paints, thinners, paint removers (PC9a); Laboratory chemicals (PC21); Polymer preparations and compounds (PC32); Manufacture of plastics products, including compounding and conversion (SU12); Building and construction work (SU19).

Environment		
CS1	Use as additive in intumescent coatings	ERC8c, ERC8f
Worker		
CS2	Mixing or blending in batch processes	PROC5
CS3	Transfer of substance or mixture (charging/discharging) at non dedicated-facilities	PROC8a
CS4	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS5	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS6	Roller application or brushing	PROC10
CS7	Non-industrial spraying	PROC11
CS8	Treatment of articles by dipping and pouring	PROC13
CS9	Manual maintenance (cleaning and repair) of machinery	PROC28

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

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Conditions and measures related to sewage treatment plant

STP type	:	Municipal Sewage Treatment Plant
Additional information on STP	:	Biological elimination
STP sludge treatment	:	Controlled application of sewage sludge to agricultural soil
STP effluent	:	2.000 m ³ /d

Other conditions affecting environmental exposure

Receiving surface water flow	:	18.000 m ³ /d
Local freshwater dilution factor	:	10

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

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Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics
Covers concentrations up to 30 %
Physical form of product : Liquid
Amount used, frequency and duration of use (or from service life)
Duration : Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Temperature : 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.

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

Product (article) characteristics
Covers concentrations up to 30 %
Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Clear spills immediately.
Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear suitable gloves tested to EN374.
If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.
For further specification, refer to section 8 of the SDS.
Dermal - minimum efficiency of 80 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

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

Product (article) characteristics

Covers concentrations up to 30 %

Physical form of product : Liquid

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

Duration : Covers daily exposures up to 8 hours

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS.

Dermal - minimum efficiency of 90 %

Respiratory protection

Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 115 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

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Ensure daily cleaning of the equipment.

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

Product (article) characteristics	
Covers concentrations up to 30 %	
Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

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

Product (article) characteristics
Covers concentrations up to 30 %

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Physical form of product	: Liquid
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS. Dermal - minimum efficiency of 80 %	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 115 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Widespread use leading to inclusion into/onto article (indoor) (ERC8c) / Widespread use leading to inclusion into/onto article (outdoor) (ERC8f)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

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Compartment	Exposure level	RCR
Freshwater	0,00059 mg/L (EUSES)	< 0,01
Freshwater sediment	0,015 mg/kg dry weight (EUSES)	< 0,01
Marine water	0,00006 mg/L (EUSES)	< 0,01
Marine sediment	0,00145 mg/kg dry weight (EUSES)	< 0,01
Sewage treatment plant	0 mg/L (EUSES)	< 0,01
Agricultural soil	0,00066 mg/kg dry weight (EUSES)	< 0,01
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,00002 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,835	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	

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inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	

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combined routes	systemic	long-term		0,296	
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7.3.6. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3,61 mg/m ³ (Stoffenmanager v5.6.10)	0,435	
inhalative	systemic	short-term	3,61 mg/m ³ (Stoffenmanager v5.6.10)	0,044	
dermal	systemic	long-term	5,486 mg/kg bw/day (ECETOC TRA worker v3)	0,465	
combined routes	systemic	long-term		0,9	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,398 mg/m ³ (Stoffenmanager v5.6.10)	0,048	
inhalative	systemic	short-term	0,398 mg/m ³ (Stoffenmanager v5.6.10)	< 0,01	
dermal	systemic	long-term	10,71 mg/kg bw/day (ECETOC TRA worker v3)	0,908	
combined routes	systemic	long-term		0,956	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA)	0,063	

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			worker v3)		
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0,525 mg/m ³ (ECETOC TRA worker v3)	0,063	
inhalative	systemic	short-term	0,525 mg/m ³ (ECETOC TRA worker v3)	< 0,01	
dermal	systemic	long-term	2,743 mg/kg bw/day (ECETOC TRA worker v3)	0,232	
combined routes	systemic	long-term		0,296	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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ES8: PU foams - Workers (industrial)

8.1. Title section

Structured Short Title : Service life - workers, PU foams - Workers (industrial); Vehicles covered by End of Life Vehicles (ELV) directive (AC1a).; Plastic articles (AC13).; Other plastic articles (AC13g).

Environment

CS1 PU foams - Workers (industrial) ERC12a

Worker

CS2 Low energy manipulation and handling of substances bound in/on materials and/or articles PROC21

CS3 High (mechanical) energy work-up of substances bound in/on materials and/or articles PROC24

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Processing of articles at industrial sites with low release (ERC12a)

Conditions and measures related to sewage treatment plant

STP type : Municipal Sewage Treatment Plant
Additional information on STP : Biological elimination
STP sludge treatment : Controlled application of sewage sludge to agricultural soil
STP effluent : 2.000 m³/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m³/d

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Local freshwater dilution factor : 10

8.2.2. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

8.2.3. Control of worker exposure: High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Processing of articles at industrial sites with low release (ERC12a)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,00059 mg/L (EUSES)	< 0,01
Freshwater sediment	0,015 mg/kg dry weight (EUSES)	< 0,01
Marine water	0,00006 mg/L (EUSES)	< 0,01
Marine sediment	0,00145 mg/kg dry weight (EUSES)	< 0,01
Sewage treatment plant	0 mg/L (EUSES)	< 0,01
Agricultural soil	0,00066 mg/kg dry weight (EUSES)	< 0,01
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01

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Man via environment - Oral	0,00002 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

8.3.2. Worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3 mg/m ³ (ECETOC TRA worker v3)	0,361	
inhalative	systemic	short-term	12 mg/m ³ (ECETOC TRA worker v3)	0,146	
dermal	systemic	long-term	2,83 mg/kg bw/day (ECETOC TRA worker v3)	0,24	
combined routes	systemic	long-term		0,601	

8.3.3. Worker exposure: High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,83 mg/kg bw/day (ECETOC TRA worker v3)	0,24	
combined routes	systemic	long-term		0,36	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management

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measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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ES9: Intumescent coatings - Workers (industrial)

9.1. Title section

Structured Short Title : Service life - workers, Intumescent coatings - Workers (industrial); Fabrics, textiles and apparel: Large surface area articles (AC5a).; Metal articles: Large surface area articles (AC7a).; Plastic articles (AC13).

Environment

CS1 Intumescent coatings - Workers (industrial) ERC12a

Worker

CS2 Low energy manipulation and handling of substances bound in/on materials and/or articles PROC21

CS3 High (mechanical) energy work-up of substances bound in/on materials and/or articles PROC24

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure: Processing of articles at industrial sites with low release (ERC12a)

Conditions and measures related to sewage treatment plant

STP type : Municipal Sewage Treatment Plant
Additional information on STP : Biological elimination
STP sludge treatment : Controlled application of sewage sludge to agricultural soil
STP effluent : 2.000 m³/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m³/d

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Local freshwater dilution factor : 10

9.2.2. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately. Ensure daily cleaning of the equipment.	

9.2.3. Control of worker exposure: High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : 40 °C

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

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Clear spills immediately.

Ensure daily cleaning of the equipment.

9.3. Exposure estimation and reference to its source

9.3.1. Environmental release and exposure: Processing of articles at industrial sites with low release (ERC12a)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,00059 mg/L (EUSES)	< 0,01
Freshwater sediment	0,015 mg/kg dry weight (EUSES)	< 0,01
Marine water	0,00006 mg/L (EUSES)	< 0,01
Marine sediment	0,00145 mg/kg dry weight (EUSES)	< 0,01
Sewage treatment plant	0 mg/L (EUSES)	< 0,01
Agricultural soil	0,00066 mg/kg dry weight (EUSES)	< 0,01
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01

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Man via environment - Oral	0,00002 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

9.3.2. Worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	3 mg/m ³ (ECETOC TRA worker v3)	0,361	
inhalative	systemic	short-term	12 mg/m ³ (ECETOC TRA worker v3)	0,146	
dermal	systemic	long-term	2,83 mg/kg bw/day (ECETOC TRA worker v3)	0,24	
combined routes	systemic	long-term		0,601	

9.3.3. Worker exposure: High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	1 mg/m ³ (ECETOC TRA worker v3)	0,12	
inhalative	systemic	short-term	4 mg/m ³ (ECETOC TRA worker v3)	0,049	
dermal	systemic	long-term	2,83 mg/kg bw/day (ECETOC TRA worker v3)	0,24	
combined routes	systemic	long-term		0,36	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management

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measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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ES10: Intumescent coatings - Professional Workers

10.1. Title section

Structured Short Title : Service life - workers, Intumescent coatings - Professional Workers; Fabrics, textiles and apparel: Large surface area articles (AC5a).; Metal articles: Large surface area articles (AC7a).; Plastic articles (AC13).

Environment

CS1 Intumescent coatings - Professional Workers ERC10a,
ERC11a

Worker

CS2 Low energy manipulation and handling of substances bound in/on materials and/or articles PROC21

10.2. Conditions of use affecting exposure

10.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor) (ERC10a) / Widespread use of articles with low release (indoor) (ERC11a)

Conditions and measures related to sewage treatment plant

STP type : Municipal Sewage Treatment Plant
Additional information on STP : Biological elimination
STP sludge treatment : Controlled application of sewage sludge to agricultural soil
STP effluent : 2.000 m³/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m³/d
Local freshwater dilution factor : 10

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10.2.2. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Product (article) characteristics	
Covers percentage substance in the product up to 100 %.	
Physical form of product	: Solid, medium dustiness
Amount used, frequency and duration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Temperature	: 40 °C

10.3. Exposure estimation and reference to its source

10.3.1. Environmental release and exposure: Widespread use of articles with low release (outdoor) (ERC10a) / Widespread use of articles with low release (indoor) (ERC11a)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,00059 mg/L (EUSES)	< 0,01
Freshwater sediment	0,015 mg/kg dry weight (EUSES)	< 0,01
Marine water	0,00006 mg/L (EUSES)	< 0,01
Marine sediment	0,00145 mg/kg dry weight (EUSES)	< 0,01

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Sewage treatment plant	0 mg/L (EUSES)	< 0,01
Agricultural soil	0,00066 mg/kg dry weight (EUSES)	< 0,01
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,00002 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

10.3.2. Worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	5 mg/m ³ (ECETOC TRA worker v3)	0,602	
inhalative	systemic	short-term	20 mg/m ³ (ECETOC TRA worker v3)	0,243	
dermal	systemic	long-term	2,83 mg/kg bw/day (ECETOC TRA worker v3)	0,24	
combined routes	systemic	long-term		0,842	

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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ES11: PU foams - Consumers

11.1. Title section

Structured Short Title : Service life - consumers, PU foams - Consumers; Plastic articles (AC13).

Environment

CS1 PU foams - Consumers ERC10a,
ERC11a

Consumer

CS2 Plastic articles AC13

11.2. Conditions of use affecting exposure

11.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor) (ERC10a) / Widespread use of articles with low release (indoor) (ERC11a)

STP type : Municipal Sewage Treatment Plant
Additional information on STP : Biological elimination
STP sludge treatment : Controlled application of sewage sludge to agricultural soil
STP effluent : 2.000 m³/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m³/d

Local freshwater dilution factor : 10

11.2.2. Control of consumer exposure: Plastic articles (AC13)

Product (article) characteristics

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Covers concentrations up to 30 %	
Physical form of product	: Solid
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

11.3. Exposure estimation and reference to its source

11.3.1. Environmental release and exposure: Widespread use of articles with low release (outdoor) (ERC10a) / Widespread use of articles with low release (indoor) (ERC11a)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,00059 mg/L (EUSES)	< 0,01
Freshwater sediment	0,015 mg/kg dry weight (EUSES)	< 0,01
Marine water	0,00006 mg/L (EUSES)	< 0,01
Marine sediment	0,00145 mg/kg dry weight (EUSES)	< 0,01
Sewage treatment plant	0 mg/L (EUSES)	< 0,01
Agricultural soil	0,00066 mg/kg dry weight (EUSES)	< 0,01
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,00002 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

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11.3.2. Consumer exposure: Plastic articles (AC13)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	< 0,01 mg/m ³ (measured data)	< 0,01	
dermal	systemic for babies	long-term	0,148 mg/kg bw/day (measured data)	0,035	for babies
dermal	systemic for adults	long-term	0,064 mg/kg bw/day (measured data)	0,015	for adults
oral	systemic	long-term	< 0,01 mg/kg bw/day (measured data)	< 0,01	
combined routes	systemic for babies	long-term		0,035	for babies
combined routes	systemic for adults	long-term		0,015	for adults

Additional information on exposure estimation

Inhalation exposure is considered to be not relevant.
Oral exposure is considered to be not relevant.

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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ES12: Intumescent coatings - Consumers

12.1. Title section

Structured Short Title : Service life - consumers, Intumescent coatings - Consumers;
Plastic articles (AC13).

Environment

CS1 Intumescent coatings - Consumers ERC10a,
ERC11a

Consumer

CS2 Plastic articles AC13

12.2. Conditions of use affecting exposure

12.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor) (ERC10a) / Widespread use of articles with low release (indoor) (ERC11a)

STP type : Municipal Sewage Treatment Plant
Additional information on STP : Biological elimination
STP sludge treatment : Controlled application of sewage sludge to agricultural soil
STP effluent : 2.000 m³/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m³/d

Local freshwater dilution factor : 10

12.2.2. Control of consumer exposure: Plastic articles (AC13)

Product (article) characteristics

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Covers concentrations up to 30 %	
Physical form of product	: Solid
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor use

12.3. Exposure estimation and reference to its source

12.3.1. Environmental release and exposure: Widespread use of articles with low release (outdoor) (ERC10a) / Widespread use of articles with low release (indoor) (ERC11a)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

Compartment	Exposure level	RCR
Freshwater	0,00059 mg/L (EUSES)	< 0,01
Freshwater sediment	0,015 mg/kg dry weight (EUSES)	< 0,01
Marine water	0,00006 mg/L (EUSES)	< 0,01
Marine sediment	0,00145 mg/kg dry weight (EUSES)	< 0,01
Sewage treatment plant	0 mg/L (EUSES)	< 0,01
Agricultural soil	0,00066 mg/kg dry weight (EUSES)	< 0,01
Man via environment - Inhalation	0 mg/m ³ (EUSES)	< 0,01
Man via environment - Oral	0,00002 mg/kg bw/day (EUSES)	< 0,01
combined routes		< 0,01

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12.3.2. Consumer exposure: Plastic articles (AC13)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR	Remarks
inhalative	systemic	long-term	0 mg/m ³	< 0,01	
dermal	systemic	long-term	0 mg/kg bw/day	< 0,01	
oral	systemic	long-term	0 mg/kg bw/day	< 0,01	
combined routes	systemic	long-term		< 0,01	

Additional information on exposure estimation

Inhalation exposure is considered to be not relevant.
Oral exposure is considered to be not relevant.
Dermal exposure is considered to be not relevant.

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

The safety data sheet at hand provides the user with risk management measures and operational conditions which enables him to work safely with the substance / mixture. If other risk management measures / operational conditions are adopted, the user has to ensure, that the risks are managed to at least equivalent levels.

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