

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : Dissolvine StimWell DDH-P

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

Use of the Substance/Mixture : Specific use(s): Chelating agent
Specific use(s): Refer to attached exposure scenario Annex.

1.3 Details of the supplier of the safety data sheet

Company : Nouryon
Functional Chemicals B.V.
Velperweg 76
NL 6824 BM Arnhem
Netherlands

Telephone : +31263664433
Telefax :
E-mail address : sds_chelates@nouryon.com

1.4 Emergency telephone number

Emergency telephone number : 24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424-9300, CHEMTREC outside USA +1-703-527-3887, CANUTEC-CANADA:1-613-996-6666,
化学事故应急咨询电话：国家化学事故应急响应中心 +86 532 8388 9090

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Corrosive to metals, 1, H290
Acute toxicity, 4, H332
Eye irritation, 2, H319
Reproductive toxicity, 2, H361d
Specific target organ toxicity - repeated exposure, 2, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Pictogram

:



Signal word

: Warning

Hazard statements

: H290
H319
H332
H361d

H373

May be corrosive to metals.
Causes serious eye irritation.
Harmful if inhaled.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

: **Prevention:**

P201
P260

Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

P280

Response:

P304 + P340 + P312

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Diethylenetriaminepentaacetic acid, pentapotassium salt 7216-95-7

2.3 Other hazards

No further data available.

PBT and vPvB assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

very persistent and very bioaccumulative (vPvB) at levels of
0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Common Name : Diethylenetriaminepentaacetic acid, pentapotassium salt, 40% aqueous solution
Pure substance/mixture : Mixture

Hazardous substance

Chemical name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Diethylenetriaminepentaacetic acid, pentapotassiumsalt		7216-95-7 404-290-3 01-0000015388-63	Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 2; H373	>= 40 - < 50

For the full text of the H-Statements mentioned in this Section, see Section 16.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Status : Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water.

In case of eye contact : Rinse with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Obtain medical attention.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

- Risks : Causes serious eye irritation.
Harmful if inhaled.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting / Specific hazards arising from the chemical : Water spray may be ineffective unless used by experienced firefighters.
Do not allow run-off from fire fighting to enter drains or water courses.
- Combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Wear respiratory protection.
Ensure adequate ventilation.
- Emergency measures on accidental release : Evacuate personnel to safe areas.
Only qualified personnel equipped with suitable protective equipment may intervene.
Prevent unauthorised persons entering the zone.

6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up / : Soak up with inert absorbent material (e.g. sand, silica gel,

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Methods for containment

acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13.

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

: For personal protection see section 8.
Avoid formation of aerosol.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Prevent unauthorized access.
Keep container tightly closed in a dry and well-ventilated place.
Store in closed dark containers made of anti-corrosive material.
Keep only in original container.

Other data

: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s)

: Refer to attached exposure scenario Annex.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Diethylenetriaminepentaacetic acid, pentapotassiumsalt	Workers	Inhalation	Long-term systemic effects	1.5 mg/m3

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

Substance name	Environmental Compartment	Value
Diethylenetriaminepentaacetic acid, pentapotassium	Fresh water	7.4 mg/l

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

salt		
	Intermittent water	3.6 mg/l
	Marine water	0.74 mg/l
	Fresh water sediment	29.1
	Marine sediment	2.91
	Sewage treatment plant	59 mg/l
	Soil	1.46

8.2 Exposure controls

Engineering controls

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

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

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form : liquid

Colour : light yellow

Odour : Slightly ammonia like

Odour Threshold : not determined

Safety data

pH : 11 - 12 1% (water)

Melting point : Not applicable

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Boiling point/boiling range	: 105 - 110 °C
Flash point	: not (in)flammable Product is not flammable (aqueous)
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: Not classified as a flammability hazard
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Vapour pressure	: similar to water
Relative vapour density	: similar to water
Relative density	: 1.15 - 1.38
Bulk density	: Not applicable
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: < 0
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidising.

9.2 Other information

Corrosive to metals : Corrosive to metals

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Copper
Aluminium
Zinc
Copper alloys
Nickel

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides
nitrogen oxides (NO_x)

Thermal decomposition : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product information:

Acute toxicity : Harmful if inhaled.

Skin corrosion/irritation : Not classified based on available information.

Serious eye damage/eye irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Respiratory sensitisation: Not classified based on available information.
Skin sensitisation: Not classified based on available information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity : Not classified based on available information.

Reproductive toxicity : Suspected of damaging the unborn child.

STOT - single exposure : Not classified based on available information.

STOT - repeated exposure : May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration hazard : Not classified based on available information.

Further information : Suspected of damaging fertility or the unborn child.

Test result

Acute inhalation toxicity : Acute toxicity estimate : 3.7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Repeated dose toxicity : Application Route: Inhalation
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

STOT - repeated exposure : Exposure routes: Inhalation
Target Organs: Respiratory Tract
The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Diethylenetriaminepentaacetic acid, pentapotassium salt

Acute toxicity:

Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The component/mixture is moderately toxic after short term inhalation.
Read-across (Analogy)

Skin corrosion/irritation : Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Result: Irritating to eyes.
Method: OECD Test Guideline 405

Repeated dose toxicity : NOAEL: 83 mg/kg
Application Route: Oral
Exposure time: 28 d
Method: OECD Test Guideline 407
Target Organs: Kidney, Liver

Germ cell mutagenicity

Genotoxicity in vitro : Ames test
Result: negative
Method: OECD Test Guideline 471
Read-across from supporting substance (structural analogue or surrogate).

Genotoxicity in vivo : Result: Not mutagenic.

Reproductive toxicity/Fertility : Species: Rat, females
Application Route: Oral
Dose: 100, 400, 1000 milligram per kilogram
General Toxicity - Parent: No observed adverse effect level: 400 mg/kg bw/day
Method: OECD Test Guideline 414
GLP: yes

STOT - single exposure : Exposure routes: Inhalation
Target Organs: Respiratory system
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure	: Exposure routes: Inhalation Target Organs: Respiratory Tract May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: No aspiration toxicity classification

SECTION 12: ECOLOGICAL INFORMATION

Product information:

Ecotoxicology Assessment

Additional ecological information : None known.

12.1 Toxicity

Diethylenetriaminepentaacetic acid, pentapotassium salt

Toxicity to fish	: LC50: 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50: 890 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202
Toxicity to algae	: NOEC: 695 mg/l Species: Scenedesmus quadricauda (Green algae) Method: OECD Test Guideline 201 Read-across from supporting substance (structural analogue or surrogate).
Toxicity to bacteria	: EC50: > 1,000 mg/l Exposure time: 3 h Species: activated sludge Test Type: Respiration inhibition Method: OECD Test Guideline 209 Read-across from supporting substance (structural analogue or surrogate).
Toxicity to fish (Chronic toxicity)	: NOEC: 148 mg/l Exposure time: 28 d Read-across from supporting substance (structural analogue or surrogate).

12.2 Persistence and degradability

Product information : No information available.

Diethylenetriaminepentaacetic acid, pentapotassium salt

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Product information : No information available.

Diethylenetriaminepentaacetic acid, pentapotassium salt

Bioaccumulation : Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

Product information : No information available.

12.5 Results of PBT and vPvB assessment

Product information:

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

12.6 Other adverse effects

Product information : No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Hazardous waste
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR : UN 3267
RID : UN 3267
IMDG-Code : UN 3267
IATA-DGR : UN 3267

14.2 Proper shipping name

ADR : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(Diethylenetriaminepentaacetic acid, pentapotassium salt)
RID : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(Diethylenetriaminepentaacetic acid, pentapotassium salt)
IMDG-Code : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(Diethylenetriaminepentaacetic acid, pentapotassium salt)
IATA-DGR : Corrosive liquid, basic, organic, n.o.s.
(Diethylenetriaminepentaacetic acid, pentapotassium salt)

14.3 Transport hazard class

ADR : 8
RID : 8

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

IMDG-Code : 8

IATA-DGR : 8

14.4 Packing group

ADR

Packing group : III

Classification Code : C7

Hazard Identification Number : 80

Labels : 8

Tunnel restriction code : (E)

RID

Packing group : III

Classification Code : C7

Hazard Identification Number : 80

Labels : 8

IMDG-Code

Packing group : III

Labels : 8

EmS Code : F-A, S-B

IATA-DGR

Packing instruction (cargo aircraft) : 856

Packing instruction (passenger aircraft) : 852

Packing instruction (LQ) : Y841

Packing group : III

Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG-Code

Marine pollutant : no

IATA-DGR

Environmentally hazardous : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

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

Notification status

DSL : YES. All components of this product are on the Canadian DSL

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

AICS	: NO. Not in compliance with the inventory
NZIoC	: NO. Not in compliance with the inventory
ENCS	: NO. Not in compliance with the inventory
ISHL	: NO. Not in compliance with the inventory
KECI	: NO. Not in compliance with the inventory
PICCS	: YES. On the inventory, or in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory
TCSI	: YES. On the inventory, or in compliance with the inventory
TSCA	: YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviation see section 16.

15.2 Chemical safety assessment

Product information	: No information available.
Diethylenetriaminepentaacetic acid, pentapotassium salt	: A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H290	: May be corrosive to metals.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H361d	: Suspected of damaging the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure if inhaled.

Classification procedure:

Corrosive to metals, 1, H290, Based on product data or assessment

Acute toxicity, 4, H332, Calculation method

Eye irritation, 2, H319, Calculation method

Reproductive toxicity, 2, H361d, Calculation method

Specific target organ toxicity - repeated exposure, 2, H373, Based on product data or assessment

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

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; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Annex :

**Industrial formulation, Formulation & (re)packing of substances and mixtures,
Dustiness: Low**

**Industrial formulation, Formulation & (re)packing of substances and mixtures,
Dustiness: Medium**

Industrial use, Dustiness: Low

Industrial use, Dustiness: Medium

Industrial use, Use in spraying formulations.

Professional use, Use in spraying formulations.

Professional use, Use in non-spraying formulations., Dustiness: Low

Professional use, Use in non-spraying formulations., Dustiness: Medium

Industrial use, Building and construction work, Dustiness: Low

. **Industrial use, Building and construction work, Dustiness: Medium**

. **Professional use, Building and construction work, Dustiness: Low**

. **Professional use, Building and construction work, Dustiness: Medium**

. **Consumer use**

1. Short title of Exposure Scenario: Industrial formulation, Formulation & (re)packing of substances and mixtures, Dustiness: Low

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC2, ERC3: Formulation of preparations, Formulation in materials
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC19: Hand-mixing with intimate contact and only PPE available
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Amount used	
Regional use tonnage (tonnes/year):	: 9558 ton(s)/year
Fraction of EU tonnage used in region:	: 100 %
Fraction of Regional tonnage used locally:	: 15 %
Maximum daily site tonnage (kg/day):	: 4720 kg/day
Environment factors not influenced by risk management	
Flow rate	: 18,000 m3/day

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Number of emission days per year : 300
Emission or Release Factor: Air : 0.25 %
Emission or Release Factor: Water : 2 %
Emission or Release Factor: Soil : 0.01 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant
Flow rate of sewage treatment plant effluent : 2,000 m3/day
Percentage removed from waste water : 0 %

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, low dustiness, Liquid mixture
Vapour pressure : < 0.01 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : <= 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operative s are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures (closed systems), Continuous process

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Activity : General exposures (closed systems), Continuous process, Automated process with (semi) closed systems

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

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

Activity : General exposures, Use in contained batch processes

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Drain down and flush system prior to equipment opening or maintenance.

2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Activity : General exposures, Batch process, Open systems

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures, Batch process, Mixing operations (open systems)

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems., Drain down and flush system prior to equipment opening or maintenance.

2.8 Contributing scenario controlling worker exposure for: PROC6: Calendering operations

Activity : General exposures (open systems), Calendering (including Banburys)

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

2.9 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Material transfers, Non-dedicated facility

Technical conditions and measures

No specific measures identified., Use drum pumps., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures, Material transfers, Dedicated facility

Technical conditions and measures

No specific measures identified., Use drum pumps., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : Drum and small package filling

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

2.12 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Activity : General exposures (open systems), Rolling, Brushing,

Equipment cleaning and maintenance

Technical conditions and measures

No specific measures identified., Use long handled tools., Avoid splashing.

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

Activity : General exposures (open systems), Production or preparation or articles by tableting, compression, extrusion or pelletisation

Technical conditions and measures

No specific measures identified.

2.14 Contributing scenario controlling worker exposure for: PROC19: Hand-mixing with intimate contact and only PPE available

Activity : General exposures, Mixing operations (open systems), Manual

Technical conditions and measures

No specific measures identified.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC2	EUSES		Fresh water		4.78 mg/L	0.646
			Marine water		0.478 mg/L	0.646
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.119 mg/kg dry weight	0.08

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			Long term dermal		
PROC2	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
			Long term dermal		
PROC3	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
			Long term dermal		
PROC4	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC5	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC6	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
			Long term dermal		
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC8b	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
			Long term dermal		
PROC9	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
			Long term dermal		
PROC10	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC14	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
			Long term dermal		
PROC19	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		

ERC2: Formulation of preparations

PROC1: Use in closed process, no likelihood of exposure

PROC10: Roller application or brushing

PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC19: Hand-mixing with intimate contact and only PPE available

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC6: Calendering operations
PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Industrial formulation, Formulation & (re)packing of substances and mixtures, Dustiness: Medium

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC2, ERC3: Formulation of preparations, Formulation in materials
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC19: Hand-mixing with intimate contact and only PPE available
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Amount used	
Regional use tonnage (tonnes/year):	: 9558 ton(s)/year
Fraction of EU tonnage used in region:	: 100 %
Fraction of Regional tonnage used locally:	: 15 %
Maximum daily site tonnage (kg/day):	: 4720 kg/day

Environment factors not influenced by risk management	
Flow rate	: 18,000 m3/day

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Number of emission days per year : 300
Emission or Release Factor: Air : 0.25 %
Emission or Release Factor: Water : 2 %
Emission or Release Factor: Soil : 0.01 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant
Flow rate of sewage treatment plant effluent : 2,000 m3/day
Percentage removed from waste water : 0 %

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, medium dustiness, Liquid mixture
Vapour pressure : < 0.01 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : <= 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures (closed systems), Continuous process

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer

lines prior to de-coupling.

2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Activity : General exposures (closed systems), Continuous process, Automated process with (semi) closed systems

Technical conditions and measures
No specific measures identified.

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

Activity : General exposures, Use in contained batch processes

Technical conditions and measures
When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
When concentration is: <25%, No specific measures identified.

2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Activity : General exposures, Batch process, Open systems

Technical conditions and measures
Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
When concentration is: <1%, No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation
If technical measures not practical: Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

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

Activity : General exposures, Mixing operations (open systems), Batch process

Technical conditions and measures

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
When concentration is:, <1%, No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation
If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.8 Contributing scenario controlling worker exposure for: PROC6: Calendering operations

Activity : General exposures (open systems), Calendering (including Banburys)

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
When concentration is:, <1%, No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation
If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.9 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Non-dedicated facility, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
When concentration is:, <1%, No specific measures identified.

Conditions and measures related to personal protection, hygiene and health evaluation
If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

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

Activity : General exposures, Dedicated facility, Material transfers

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

<25%, No specific measures identified.

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

Activity : General exposures, Dedicated facility, Drum and small package filling, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

When concentration is: <1%, No specific measures identified.

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

If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.12 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Activity : General exposures (open systems), Rolling, Brushing, Equipment cleaning and maintenance

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

When concentration is: <1%, No specific measures identified.

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

If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

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

Activity : General exposures (open systems), Production or preparation or articles by tableting, compression, extrusion or pelletisation

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

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

In case no LEV is present, a suitable respiratory protection with adequate effectiveness is required, Wear a respirator conforming to EN140 with Type A/P2 filter or better.

(Effectiveness (of a measure): 80 %)

2.14 Contributing scenario controlling worker exposure for: PROC19: Hand-mixing with intimate contact and only PPE available

Activity : General exposures, Mixing operations (open systems), Manual

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

Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC2	EUSES		Fresh water		4.78 mg/L	0.646
			Marine water		0.478 mg/L	0.646
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.119 mg/kg dry weight	0.08

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
			Long term dermal		
PROC2	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC3	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			Long term dermal		
PROC4	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC5	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC6	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC8b	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
			Long term dermal		
PROC9	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC10	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC14	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
			Long term dermal		
PROC19	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.3
			Long term dermal		

ERC2: Formulation of preparations

PROC1: Use in closed process, no likelihood of exposure

PROC10: Roller application or brushing

PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC19: Hand-mixing with intimate contact and only PPE available

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

PROC6: Calendering operations

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Industrial use, Dustiness: Low

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15: Use as laboratory reagent PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC19: Hand-mixing with intimate contact and only PPE available PROC21: Low energy manipulation of substances bound in materials and/ or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Amount used

Regional use tonnage : 14.16 ton(s)/year
(tonnes/year):
Fraction of EU tonnage used in region: : 0.14815 %
Fraction of Regional tonnage used locally: : 100 %
Maximum daily site tonnage (kg/day): : 94.4 kg/day

Environment factors not influenced by risk management

Flow rate : 45,000 m3/day
Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Number of emission days per year : 150
Emission or Release Factor: Air : 0.001 %
Emission or Release Factor: Water : 100 %
Emission or Release Factor: Soil : 0.1 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : none
Flow rate of sewage treatment plant effluent : 5,000 m3/day
Percentage removed from waste water : 0 %

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Activity : Industrial use
Product characteristics
Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0.01 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : <= 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures (closed systems), Continuous process

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Activity : General exposures (closed systems), Continuous process, Automated process with (semi) closed systems

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

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

Activity : General exposures, Use in contained batch processes

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Drain down and flush system prior to equipment opening or maintenance.

2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Activity : General exposures, Batch process, Open systems

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures, Batch process, Mixing operations (open systems)

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems., Drain down and flush system prior to equipment opening or maintenance.

2.8 Contributing scenario controlling worker exposure for: PROC6: Calendering operations

Activity : General exposures (open systems), Calendering (including Banburys)

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

2.9 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Material transfers, Non-dedicated facility

Technical conditions and measures

No specific measures identified., Use drum pumps., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures, Material transfers, Dedicated facility

Technical conditions and measures

No specific measures identified., Use drum pumps., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : Drum and small package filling

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

2.12 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Activity : General exposures (open systems), Rolling, Brushing, Equipment cleaning and maintenance

Technical conditions and measures

No specific measures identified., Use long handled tools., Avoid splashing.

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

Activity : Dipping, immersion and pouring, General exposures (open systems)

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures (open systems), Production or preparation or articles by tableting, compression, extrusion or pelletisation

Technical conditions and measures

No specific measures identified.

2.15 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

Activity : General exposures, Laboratory activities, Small scale, Manual

Technical conditions and measures

No specific measures identified.

2.16 Contributing scenario controlling worker exposure for: PROC17: Lubrication at high energy conditions and in partly open process

Activity : General exposures, Operation and lubrication of high energy open equipment

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

2.17 Contributing scenario controlling worker exposure for: PROC18: Greasing at high energy conditions

Activity : General exposures

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

2.18 Contributing scenario controlling worker exposure for: PROC19: Hand-mixing with intimate contact and only PPE available

Activity : General exposures, Mixing operations (open systems), Manual

Technical conditions and measures

No specific measures identified.

2.19 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual
Product characteristics
Physical Form (at time of use) : solid

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

(of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.078 mg/kg dry weight	0.0527

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
PROC2	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
PROC3	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC4	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC5	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC6	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC8b	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC9	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC10	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC13	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC14	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC15	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC17	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

PROC18	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC19	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC21	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13

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

PROC1: Use in closed process, no likelihood of exposure

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15: Use as laboratory reagent

PROC17: Lubrication at high energy conditions and in partly open process

PROC18: Greasing at high energy conditions

PROC19: Hand-mixing with intimate contact and only PPE available

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC21: Low energy manipulation of substances bound in materials and/ or articles

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

PROC6: Calendering operations

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Industrial use, Dustiness: Medium

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15: Use as laboratory reagent PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC19: Hand-mixing with intimate contact and only PPE available PROC21: Low energy manipulation of substances bound in materials and/ or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Amount used

Regional use tonnage : 14.16 ton(s)/year
(tonnes/year):
Fraction of EU tonnage used in region: : 0.14815 %
Fraction of Regional tonnage used locally: : 100 %
Maximum daily site tonnage (kg/day): : 94.4 kg/day

Environment factors not influenced by risk management

Flow rate : 45,000 m3/day
Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Number of emission days per year : 150
Emission or Release Factor: Air : 0.001 %
Emission or Release Factor: Water : 100 %
Emission or Release Factor: Soil : 0.1 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : none
Flow rate of sewage treatment plant effluent : 5,000 m3/day
Percentage removed from waste water : 0 %

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Activity : Industrial use
Product characteristics
Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, medium dustiness
Vapour pressure : < 0.01 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : <= 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

No specific measures identified.

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures (closed systems), Continuous process

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Activity : General exposures (closed systems), Continuous process, Automated process with (semi) closed systems

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

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

Activity : General exposures, Use in contained batch processes

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Activity : General exposures, Batch process, Open systems

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are

under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

When concentration is: <1%, No specific measures identified.

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

If technical measures not practical: Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

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

Activity : General exposures, Mixing operations (open systems), Batch process

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

When concentration is: <1%, No specific measures identified.

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

If technical measures not practical: Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.8 Contributing scenario controlling worker exposure for: PROC6: Calendering operations

Activity : General exposures (open systems), Calendering (including Banburys)

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

When concentration is: <1%, No specific measures identified.

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

If technical measures not practical: Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.9 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Non-dedicated facility, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
When concentration is: <1%, No specific measures identified.

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

If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

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

Activity : General exposures, Dedicated facility, Material transfers

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
<25%, No specific measures identified.

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

Activity : General exposures, Dedicated facility, Drum and small package filling, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
When concentration is: <1%, No specific measures identified.

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

If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.12 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Activity : General exposures (open systems), Rolling, Brushing, Equipment cleaning and maintenance

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

When concentration is: <1%, No specific measures identified.

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

If technical measures not practical: Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

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

Activity : General exposures, Dipping, immersion and pouring

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

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

Activity : General exposures (open systems), Production or preparation or articles by tableting, compression, extrusion or pelletisation

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <25%, No specific measures identified.

2.15 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

Activity : General exposures, Laboratory activities, Manual, Small scale

Technical conditions and measures

No specific measures identified.

2.16 Contributing scenario controlling worker exposure for: PROC17: Lubrication at high energy conditions and in partly open process

Activity : General exposures, Operation and lubrication of high energy open equipment

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

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

When concentration is:, >5%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.17 Contributing scenario controlling worker exposure for: PROC18: Greasing at high energy conditions

Activity : General exposures

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

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

When concentration is:, >5%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.18 Contributing scenario controlling worker exposure for: PROC19: Hand-mixing with intimate contact and only PPE available

Activity : General exposures, Mixing operations (open systems), Manual

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

Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.19 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Technical conditions and measures

When concentration is:, >5%, Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 90 %)

When concentration is:, <5%, No specific measures identified.

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

If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

3. Exposure estimation and reference to its source

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.078 mg/kg dry weight	0.0527

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
PROC2	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC3	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC4	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC5	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC6	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC8b	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC9	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC10	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC13	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC14	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC15	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC17	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC18	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC19	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC21	ECETOC TRA		Long term inhalation	0.3 mg/m ³	0.2

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

PROC1: Use in closed process, no likelihood of exposure

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15: Use as laboratory reagent

PROC17: Lubrication at high energy conditions and in partly open process

PROC18: Greasing at high energy conditions

PROC19: Hand-mixing with intimate contact and only PPE available

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC21: Low energy manipulation of substances bound in materials and/ or articles

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

PROC6: Calendering operations

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Industrial use, Use in spraying formulations.

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7: Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems
Process categories	: PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Amount used

Regional use tonnage (tonnes/year):	: 14.16 ton(s)/year
Fraction of EU tonnage used in region:	: 0.14815 %
Fraction of Regional tonnage used locally:	: 100 %
Maximum daily site tonnage (kg/day):	: 94.4 kg/day

Environment factors not influenced by risk management

Flow rate	: 45,000 m3/day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 150
Emission or Release Factor: Air	: 0.001 %
Emission or Release Factor: Water	: 100 %

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Emission or Release Factor: Soil : 0.1 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : none
Flow rate of sewage treatment : 5,000 m3/day
plant effluent
Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Activity : Industrial use, Spraying
Product characteristics
Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
in Mixture/Article
Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols
Frequency and duration of use
Application duration : <= 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure
Outdoor / Indoor : Indoor

Technical conditions and measures
No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure
Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation
Use suitable eye protection.

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

Activity : General exposures (open systems), Spraying
Product characteristics
Physical Form (at time of use) : Dustiness: Low
: , Spraying with no or low compressed air use

Technical conditions and measures
When concentration is: >25%, Provide extraction ventilation at points where emissions occur. (Effectiveness (of a measure): 80 %)
When concentration is: <25%, No specific measures identified.

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

Activity : General exposures (open systems), Spraying
Product characteristics
Physical Form (at time of use) : Dustiness: Medium

Technical conditions and measures

Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings., Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20. (Effectiveness (of a measure): 95 %)

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.10 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Material transfers, Non-dedicated facility

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems.

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

Activity : General exposures, Material transfers, Dedicated facility

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment		47.2 mg/L	0.8

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			plant			
			Soil		0.078 mg/kg dry weight	0.0527

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC7	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC7	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC8b	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07

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

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Professional use, Use in spraying formulations.

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental Release Categories	: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive indoor use of reactive substances in open systems, Wide dispersive indoor use resulting in inclusion into or onto a matrix, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive outdoor use of reactive substances in open systems, Wide dispersive outdoor use resulting in inclusion into or onto a matrix, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Process categories	: PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC11: Non-industrial spraying
Further information	: ,The exposure scenario covers: Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Amount used

Regional use tonnage (tonnes/year):	: 28.32 ton(s)/year
Fraction of EU tonnage used in region:	: 0.3 %
Fraction of Regional tonnage used locally:	: 100 %
Maximum daily site tonnage (kg/day):	: 94.4 kg/day

Environment factors not influenced by risk management

Flow rate	: 18,000 m ³ /day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 300
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Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Emission or Release Factor: Air : 100 %
Emission or Release Factor: : 100 %
Water
Emission or Release Factor: Soil : 20 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment : 2,000 m3/day
plant effluent
Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Activity : Professional use, Spraying
Product characteristics
Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
in Mixture/Article
Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : <= 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

2.3 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Material transfers, Non-dedicated facility

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems.

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

Activity : General exposures, Material transfers, Dedicated facility

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems.

2.5 Contributing scenario controlling worker exposure for: PROC11: Non-industrial spraying

Activity : General exposures (open systems), Spraying
Product characteristics
Physical Form (at time of use) : Dustiness: Low
: , Spraying with no or low compressed air use

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
When concentration is: <25%, No specific measures identified.

2.6 Contributing scenario controlling worker exposure for: PROC11: Non-industrial spraying

Activity : General exposures (open systems), Spraying, Medium pressure process
Product characteristics
Physical Form (at time of use) : Liquid mixture, Dustiness: Medium

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

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

Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8d	EUSES		Fresh water		4.79 mg/L	0.647

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.04 mg/kg dry weight	0.27

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC8b	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC11	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC11	ECETOC TRA		Long term inhalation	0.4 mg/m ³	0.27

ERC8d: Wide dispersive outdoor use of processing aids in open systems

PROC11: Non-industrial spraying

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Professional use, Use in non-spraying formulations., Dustiness: Low

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental Release Categories	: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive indoor use of reactive substances in open systems, Wide dispersive indoor use resulting in inclusion into or onto a matrix, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive outdoor use of reactive substances in open systems, Wide dispersive outdoor use resulting in inclusion into or onto a matrix, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15: Use as laboratory reagent PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC19: Hand-mixing with intimate contact and only PPE available PROC21: Low energy manipulation of substances bound in materials and/ or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Amount used

Regional use tonnage : 28.32 ton(s)/year
(tonnes/year):
Fraction of EU tonnage used in region: : 0.3 %
Fraction of Regional tonnage used locally: : 100 %
Maximum daily site tonnage (kg/day): : 94.4 kg/day

Environment factors not influenced by risk management

Flow rate : 18,000 m3/day
Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Number of emission days per year : 300
Emission or Release Factor: Air : 100 %
Emission or Release Factor: Water : 100 %
Emission or Release Factor: Soil : 20 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m3/day
Percentage removed from waste water : 0 %

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Activity : Professional use
Product characteristics
Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : < 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures (closed systems), Continuous process

Technical conditions and measures

No specific measures identified., Clear transfer lines prior to de-coupling., Closed systems

2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Activity : General exposures (closed systems), Continuous process, Automated process with (semi) closed systems

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

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

Activity : General exposures, Use in contained batch processes

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Drain down and flush system prior to equipment opening or maintenance.

2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Activity : General exposures, Batch process, Open systems

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

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

Activity : General exposures, Batch process, Mixing operations (open systems)

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

2.8 Contributing scenario controlling worker exposure for: PROC6: Calendering operations

Activity : General exposures (open systems), Calendering (including Banburys)

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

2.9 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Material transfers, Non-dedicated facility

Technical conditions and measures

No specific measures identified., Use drum pumps., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures, Material transfers, Dedicated facility

Technical conditions and measures

No specific measures identified., Use drum pumps., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : Drum and small package filling

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

2.12 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Activity : General exposures (open systems), Rolling, Brushing, Equipment cleaning and maintenance

Technical conditions and measures

No specific measures identified., Use long handled tools., Avoid splashing.

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

Activity : Dipping, immersion and pouring, General exposures (open systems)

Technical conditions and measures

No specific measures identified., Drain down and flush system prior to equipment opening or maintenance.

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

Activity : General exposures (open systems), Production or preparation or articles by tableting, compression, extrusion or pelletisation

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

2.15 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

Activity : General exposures, Laboratory activities, Small scale, Manual

Technical conditions and measures
No specific measures identified.

2.16 Contributing scenario controlling worker exposure for: PROC17: Lubrication at high energy conditions and in partly open process

Activity : General exposures, Operation and lubrication of high energy open equipment

Technical conditions and measures
Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

Conditions and measures related to personal protection, hygiene and health evaluation
When concentration is: >5%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.17 Contributing scenario controlling worker exposure for: PROC18: Greasing at high energy conditions

Activity : General exposures

Technical conditions and measures
Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

Conditions and measures related to personal protection, hygiene and health evaluation
When concentration is: >5%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.18 Contributing scenario controlling worker exposure for: PROC19: Hand-mixing with intimate contact and only PPE available

Activity : General exposures, Mixing operations (open systems), Manual

Technical conditions and measures
No specific measures identified.

2.19 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Technical conditions and measures

When concentration is: >5%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

<5%, No specific measures identified.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8d	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.04 mg/kg dry weight	0.27

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
PROC2	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
PROC3	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC4	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC5	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC6	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC8b	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC9	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC10	ECETOC TRA		Long term	0.5 mg/m ³	0.33

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			inhalation		
PROC13	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC14	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
PROC15	ECETOC TRA		Long term inhalation	0.1 mg/m ³	0.07
PROC17	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC18	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
PROC19	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
PROC21	ECETOC TRA		Long term inhalation	0.6 mg/m ³	0.4

ERC8d: Wide dispersive outdoor use of processing aids in open systems

PROC1: Use in closed process, no likelihood of exposure

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15: Use as laboratory reagent

PROC17: Lubrication at high energy conditions and in partly open process

PROC18: Greasing at high energy conditions

PROC19: Hand-mixing with intimate contact and only PPE available

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC21: Low energy manipulation of substances bound in materials and/ or articles

PROC3: Use in closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

PROC6: Calendering operations

PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Professional use, Use in non-spraying formulations., Dustiness: Medium

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental Release Categories	: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive indoor use of reactive substances in open systems, Wide dispersive indoor use resulting in inclusion into or onto a matrix, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive outdoor use of reactive substances in open systems, Wide dispersive outdoor use resulting in inclusion into or onto a matrix, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Process categories	: PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendaring operations PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC15: Use as laboratory reagent PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC19: Hand-mixing with intimate contact and only PPE available PROC21: Low energy manipulation of substances bound in materials and/ or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

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

Amount used

Regional use tonnage : 28.32 ton(s)/year
(tonnes/year):
Fraction of EU tonnage used in region: : 0.3 %
Fraction of Regional tonnage used locally: : 100 %
Maximum daily site tonnage (kg/day): : 94.4 kg/day

Environment factors not influenced by risk management

Flow rate : 18,000 m3/day
Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Number of emission days per year : 300
Emission or Release Factor: Air : 100 %
Emission or Release Factor: Water : 100 %
Emission or Release Factor: Soil : 20 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m3/day
Percentage removed from waste water : 0 %

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Activity : Professional use

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Solid, medium dustiness

Vapour pressure : < 0.001 Pa

Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : < 8 h

Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Outdoor / Indoor : Outdoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures (closed systems), Continuous process

Technical conditions and measures

No specific measures identified., Handle substance within a closed system., Clear transfer lines prior to de-coupling.

2.4 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Activity : General exposures (closed systems), Continuous process, Automated process with (semi) closed systems

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

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

Activity : General exposures, Use in contained batch processes

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

2.6 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Activity : General exposures, Open systems, Batch process

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is:, <1%, No specific measures identified.

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

When concentration is:, >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

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

Activity : General exposures, Mixing operations (open systems), Batch process

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is:, <1%, No specific measures identified.

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

When concentration is:, >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.8 Contributing scenario controlling worker exposure for: PROC6: Calendering operations

Activity : General exposures (open systems), Calendering (including Banburys)

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is:, <1%, No specific measures identified.

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

When concentration is:, >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.9 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

Activity : General exposures, Non-dedicated facility, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >5%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

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

Activity : General exposures, Dedicated facility, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

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

Activity : General exposures, Dedicated facility, Drum and small package filling, Material transfers

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.12 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Activity : General exposures (open systems), Rolling, Brushing, Equipment cleaning and maintenance

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

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

Activity : General exposures, Dipping, immersion and pouring

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

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

Activity : General exposures (open systems), Production or preparation or articles by tableting, compression, extrusion or pelletisation

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.15 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

Activity : General exposures, Laboratory activities, Manual, Small scale

Technical conditions and measures
No specific measures identified.

2.16 Contributing scenario controlling worker exposure for: PROC17: Lubrication at high energy conditions and in partly open process

Activity : General exposures, Operation and lubrication of high energy open equipment

Technical conditions and measures
Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

Conditions and measures related to personal protection, hygiene and health evaluation
Wear a full face respirator conforming to EN136 with Type A/P2 filter or better. (Effectiveness (of a measure): 95 %)

2.17 Contributing scenario controlling worker exposure for: PROC18: Greasing at high energy conditions

Activity : General exposures

Technical conditions and measures
Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

Conditions and measures related to personal protection, hygiene and health evaluation
Wear a full face respirator conforming to EN136 with Type A/P2 filter or better. (Effectiveness (of a measure): 95 %)

2.18 Contributing scenario controlling worker exposure for: PROC19: Hand-mixing with intimate contact and only PPE available

Activity : General exposures, Mixing operations (open systems), Manual

Conditions and measures related to personal protection, hygiene and health evaluation
Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.19 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8d	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.04 mg/kg dry weight	0.27

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC1	ECETOC TRA		Long term inhalation	0.01 mg/m ³	0.01
			Long term dermal	mg/kg bw/day	
PROC2	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
			Long term dermal	mg/kg bw/day	
PROC3	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
			Long term dermal	mg/kg bw/day	
PROC4	ECETOC TRA		Long term	0.25 mg/m ³	0.17

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			inhalation		
			Long term dermal	mg/kg bw/day	
PROC5	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC6	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC8a	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal	mg/kg bw/day	
PROC8b	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC9	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC10	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC13	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC14	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC15	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal	mg/kg bw/day	
PROC17	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal	mg/kg bw/day	
PROC18	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal		
PROC19	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal	mg/kg bw/day	
PROC21	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal		

ERC8d: Wide dispersive outdoor use of processing aids in open systems
PROC1: Use in closed process, no likelihood of exposure
PROC10: Roller application or brushing
PROC13: Treatment of articles by dipping and pouring
PROC14: Production of preparations or articles by tableting, compression, extrusion, pelletisation
PROC15: Use as laboratory reagent
PROC17: Lubrication at high energy conditions and in partly open process
PROC18: Greasing at high energy conditions
PROC19: Hand-mixing with intimate contact and only PPE available
PROC2: Use in closed, continuous process with occasional controlled exposure
PROC21: Low energy manipulation of substances bound in materials and/ or articles
PROC3: Use in closed batch process (synthesis or formulation)
PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
PROC6: Calendering operations
PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

1. Short title of Exposure Scenario: Industrial use, Building and construction work, Dustiness: Low

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC12a, ERC12b: Industrial processing of articles with abrasive techniques (low release), Industrial processing of articles with abrasive techniques (high release)
Process categories	: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC21: Low energy manipulation of substances bound in materials and/or articles PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

2.1 Contributing scenario controlling environmental exposure for: ERC12b: Industrial processing of articles with abrasive techniques (high release)

Amount used

Regional use tonnage (tonnes/year):	: 1077 ton(s)/year
Fraction of EU tonnage used in region:	: 11 %
Fraction of Regional tonnage used locally:	: 100 %
Maximum daily site tonnage (kg/day):	: 2950 kg/day

Environment factors not influenced by risk management

Flow rate	: 18,000 m3/day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 365
Emission or Release Factor: Air	: 1 %
Emission or Release Factor: Water	: 3.2 %
Emission or Release Factor: Soil	: 3.2 %
Remarks	: EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	: none
Flow rate of sewage treatment	: 2,000 m3/day

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

plant effluent

Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Product characteristics

Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : < 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor
Outdoor / Indoor : Outdoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures, Mixing operations (open systems),
Batch process

Technical conditions and measures

No specific measures identified., Use bulk or semi-bulk handling systems., Drain down and flush system prior to equipment opening or maintenance.

2.4 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

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

Activity : General exposures (open systems), Roller, spreader, flow application, Drill floor operations

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC12b	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.201 mg/kg dry weight	0.135

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC5	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.33
			Long term dermal	mg/kg bw/day	
PROC21	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
			Long term dermal	mg/kg bw/day	
PROC24	ECETOC TRA		Long term inhalation	0.2 mg/m ³	0.13
			Long term dermal	mg/kg bw/day	

ERC12b: Industrial processing of articles with abrasive techniques (high release)

PROC21: Low energy manipulation of substances bound in materials and/ or articles

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

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

1. Short title of Exposure Scenario: Industrial use, Building and construction work, Dustiness: Medium

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental Release Categories	: ERC12a, ERC12b: Industrial processing of articles with abrasive techniques (low release), Industrial processing of articles with abrasive techniques (high release)
Process categories	: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC21: Low energy manipulation of substances bound in materials and/or articles PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

2.1 Contributing scenario controlling environmental exposure for: ERC12b: Industrial processing of articles with abrasive techniques (high release)

Amount used

Regional use tonnage (tonnes/year):	: 1077 ton(s)/year
Fraction of EU tonnage used in region:	: 11 %
Fraction of Regional tonnage used locally:	: 100 %
Maximum daily site tonnage (kg/day):	: 2950 kg/day

Environment factors not influenced by risk management

Flow rate	: 18,000 m3/day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 365
Emission or Release Factor: Air	: 1 %
Emission or Release Factor: Water	: 3.2 %
Emission or Release Factor: Soil	: 3.2 %
Remarks	: EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	: none
Flow rate of sewage treatment	: 2,000 m3/day

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

plant effluent
Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Product characteristics

Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, medium dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : < 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor
Outdoor / Indoor : Outdoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures, Mixing operations (open systems),
Batch process

Technical conditions and measures

When concentration is: >1%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)

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

If technical measures not practical:, Wear a respirator conforming to EN140 with Type A/P2 filter or better. (Effectiveness (of a measure): 90 %)

2.4 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Technical conditions and measures

When concentration is: >5%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
<5%, No specific measures identified.

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

Activity : General exposures (open systems), Roller, spreader, flow application, Drill floor operations

Technical conditions and measures

When concentration is: >5%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 90 %)
<5%, No specific measures identified.

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC12b	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.201 mg/kg dry weight	0.135

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC5	ECETOC TRA		Long term inhalation	0.5 mg/m ³	0.3
			Long term dermal	mg/kg bw/day	
PROC21	ECETOC TRA		Long term	0.3 mg/m ³	0.2

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			inhalation		
			Long term dermal	mg/kg bw/day	
PROC24	ECETOC TRA		Long term inhalation	0.6 mg/m ³	0.4
			Long term dermal	mg/kg bw/day	

ERC12b: Industrial processing of articles with abrasive techniques (high release)

PROC21: Low energy manipulation of substances bound in materials and/ or articles

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

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

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

For further information, please also consult our Internet site: Downstream Users
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Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

1. Short title of Exposure Scenario: Professional use, Building and construction work, Dustiness: Low

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental Release Categories	: ERC10a, ERC10b, ERC11a, ERC11b: Wide dispersive outdoor use of long-life articles and materials with low release, Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing), Wide dispersive indoor use of long-life articles and materials with low release, Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)
Process categories	: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC21: Low energy manipulation of substances bound in materials and/or articles PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

2.1 Contributing scenario controlling environmental exposure for: ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release

Amount used

Regional use tonnage (tonnes/year):	: 1077 ton(s)/year
Fraction of EU tonnage used in region:	: 11 %
Fraction of Regional tonnage used locally:	: 100 %
Maximum daily site tonnage (kg/day):	: 2950 kg/day

Environment factors not influenced by risk management

Flow rate	: 18,000 m3/day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 365
Emission or Release Factor: Air	: 1 %
Emission or Release Factor: Water	: 3.2 %
Emission or Release Factor: Soil	: 3.2 %

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : none
Flow rate of sewage treatment : 2,000 m3/day
plant effluent
Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Product characteristics

Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use) : Solid, low dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : < 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor
Outdoor / Outdoor : Outdoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures, Mixing operations (open systems),
Batch process

Technical conditions and measures

When concentration is: >25%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<25%, No specific measures identified.

2.4 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Technical conditions and measures

When concentration is: >5%, Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
<5%, No specific measures identified.

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

Activity : General exposures (open systems), Roller, spreader, flow application, Drill floor operations

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 75 %)
When concentration is: <5%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC10a	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.201 mg/kg dry weight	0.135

Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC5	ECETOC TRA		Long term	0.2 mg/m ³	0.13

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

			inhalation		
			Long term dermal	mg/kg bw/day	
PROC21	ECETOC TRA		Long term inhalation	0.6 mg/m ³	0.4
			Long term dermal	mg/kg bw/day	
PROC24	ECETOC TRA		Long term inhalation	0.19 mg/m ³	0.13
			Long term dermal	mg/kg bw/day	

ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release

PROC21: Low energy manipulation of substances bound in materials and/ or articles

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

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

1. Short title of Exposure Scenario: Professional use, Building and construction work, Dustiness: Medium

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental Release Categories	: ERC10a, ERC10b, ERC11a, ERC11b: Wide dispersive outdoor use of long-life articles and materials with low release, Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing), Wide dispersive indoor use of long-life articles and materials with low release, Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)
Process categories	: PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC21: Low energy manipulation of substances bound in materials and/or articles PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

2.1 Contributing scenario controlling environmental exposure for: ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release

Amount used

Regional use tonnage (tonnes/year):	: 1077 ton(s)/year
Fraction of EU tonnage used in region:	: 11 %
Fraction of Regional tonnage used locally:	: 100 %
Maximum daily site tonnage (kg/day):	: 2950 kg/day

Environment factors not influenced by risk management

Flow rate	: 18,000 m3/day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 365
Emission or Release Factor: Air	: 1 %
Emission or Release Factor: Water	: 3.2 %
Emission or Release Factor: Soil	: 3.2 %

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : none
Flow rate of sewage treatment : 2,000 m³/day
plant effluent
Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling worker exposure for: All PROCs: Applicable to all above mentioned process categories.

Product characteristics

Concentration of the Substance : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
in Mixture/Article
Physical Form (at time of use) : Solid, medium dustiness
Vapour pressure : < 0.001 Pa
Remarks : Inhalation exposure only via aerosols

Frequency and duration of use

Application duration : < 8 h
Frequency of use : <= 365 days/year

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor
Outdoor / Outdoor : Outdoor

Technical conditions and measures

No specific measures identified.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented, Ensure operatives are trained to minimise exposures., Clean equipment and the work area every day., Clear spills immediately.

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

Use suitable eye protection.

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

Activity : General exposures, Mixing operations (open systems),
Batch process

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)
When concentration is: <1%, No specific measures identified.

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

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

2.4 Contributing scenario controlling worker exposure for: PROC21: Low energy manipulation of substances bound in materials and/ or articles

Activity : General exposures (open systems), Manual

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >25%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

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

Activity : General exposures (open systems), Roller, spreader, flow application, Drill floor operations

Technical conditions and measures

Provide extraction ventilation at points where emissions occur., Ensure material transfers are under containment or extract ventilation. (Effectiveness (of a measure): 80 %)

When concentration is: <1%, No specific measures identified.

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

When concentration is: >5%, Wear a disposable mask FFP1 (APF=4) or better (Effectiveness (of a measure): 75 %)

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC10a	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.201 mg/kg	0.135

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

					dry weight	
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Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC5	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC21	ECETOC TRA		Long term inhalation	0.25 mg/m ³	0.17
			Long term dermal	mg/kg bw/day	
PROC24	ECETOC TRA		Long term inhalation	0.31 mg/m ³	0.21
			Long term dermal	mg/kg bw/day	

ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release

PROC21: Low energy manipulation of substances bound in materials and/ or articles

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

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm

1. Short title of Exposure Scenario: Consumer use

Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)
Environmental Release Categories	: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive indoor use of reactive substances in open systems, Wide dispersive indoor use resulting in inclusion into or onto a matrix, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive outdoor use of reactive substances in open systems, Wide dispersive outdoor use resulting in inclusion into or onto a matrix, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Chemical product category	: PC1: Adhesives, sealants PC9a: Coatings and paints, thinners, paint removers PC9b: Fillers, putties, plasters, modelling clay PC12: Fertilizers PC35: Washing and cleaning products (including solvent based products) PC36: Water softeners PC39: Cosmetics, personal care products
Further information	: ,The exposure scenario covers; Diethylenetriaminepentaacetic acid, pentapotassium salt

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

Amount used

Regional use tonnage (tonnes/year):	: 956 ton(s)/year
Fraction of EU tonnage used in region:	: 10 %
Fraction of Regional tonnage used locally:	: 3.6 %
Maximum daily site tonnage (kg/day):	: 95 kg/day

Environment factors not influenced by risk management

Flow rate	: 18,000 m3/day
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

Other given operational conditions affecting environmental exposure

Number of emission days per year	: 365
Emission or Release Factor: Air	: 10 %

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

Emission or Release Factor: : 100 %
Water
Emission or Release Factor: Soil : 20 %
Remarks : EUSES A&B tables

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : none
Flow rate of sewage treatment : 2,000 m3/day
plant effluent
Percentage removed from waste : 0 %
water

2.2 Contributing scenario controlling consumer exposure for: PC9a, PC9b, PC12, PC36, PC39: Coatings and paints, thinners, paint removers, Fillers, putties, plasters, modelling clay, Fertilizers, Water softeners, Cosmetics, personal care products

Product characteristics

Concentration of the Substance : Covers percentage substance in the product up to 40%
in Mixture/Article
Physical Form (at time of use) : Liquid (aqueous solution) or solid salts (assumed to be in granular/flake form rather than powdered), paste
Remarks : For non-spraying processes (no aerosol generation), an inhalative exposure is considered to be not relevant.

Amount used

Amount used : 0.2 kg

Frequency and duration of use

Frequency of use : 365 event(s)/year

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

Activity : All purpose cleaners, Oven cleaners, Glass cleaners
Product characteristics
Physical Form (at time of use) : Spray

Amount used

: 19.5 gram

Frequency and duration of use

Frequency of use : 52 event(s)/year
Remarks : Spraying

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Indoor
Outdoor / Indoor : Outdoor

Dissolvine StimWell DDH-P

Version 1

Revision Date 04.12.2017

Print Date 05.03.2021

GB / EN

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

Consumer Measures : Do not touch eyes when using this product., Spraying away from exposed person

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

Activity : Residues on clothing

Frequency and duration of use

Frequency of use : 365 days/year

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Indoor

Outdoor / Indoor : Outdoor

3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a	EUSES		Fresh water		4.79 mg/L	0.647
			Marine water		0.479 mg/L	0.647
			Sewage treatment plant		47.2 mg/L	0.8
			Soil		0.078 mg/kg dry weight	0.0527

Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
All PCs		Use in non-spraying formulations., Pastes, solid			
	Consexpo	Oven cleaners, Spray	Long term inhalation	0.000062 mg/m ³	< 0.001
		Residues on clothing	Long-term oral	0.14 mg/kg bw/day	0.01

All PCs: Applicable to all above mentioned product categories.

ERC8a: Wide dispersive indoor use of processing aids in open systems
No exposure assessment has been performed
The substance has a very low vapor pressure and is not dusty
Dermal exposure is considered to be not relevant since the substance has a negligible dermal uptake

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

For further information, please also consult our Internet site: Downstream Users
http://guidance.echa.europa.eu/downstream_users_en.htm
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.