

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**EDTA TETRASODIUM SALT 40%**

Version 1.0

Print Date 23.12.2023

Revision date / valid from 15.05.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name : EDTA TETRASODIUM SALT 40%
REACH Status : Each component of the product is either registered or exempted from registration obligations according to REACH Regulation (EC) No 1907/2006

UFI : 6CE0-G11S-W009-956H
UFI code notified in : Belgium, Germany, Denmark, Estonia, Spain, France, Croatia, Ireland, Iceland, Lithuania, Luxembourg, Latvia, Malta, Netherlands, Norway, Portugal, Sweden

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : industrial use

1.3. Details of the supplier of the safety data sheet

Company : Brenntag N.V.
Nijverheidslaan 38
BE 8540 Deerlijk

Telephone : +32 (0)56 77 6944
Telefax : +32 (0)56 77 5711
E-mail address : info@brenntag.be
Responsible/issuing person : Master Data Administration

Company : Brenntag Nederland B.V.
Donker Duyvisweg 44
NL 3316 BM Dordrecht

Telephone : +31 (0)78 65 44 944
Telefax : +31 (0)78 65 44 919
E-mail address : info@brenntag.nl
Responsible/issuing person : Master Data Administration

1.4. Emergency telephone number

Emergency telephone number : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245
Netherland: National Poisoning Information Center - Bilthoven
TEL: +31(0) 88 755 8000 (Only for the purpose of informing

EDTA TETRASODIUM SALT 40%

medical personnel in cases of acute intoxications)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Corrosive to metals	Category 1	---	H290
Skin irritation	Category 2	---	H315
Serious eye damage	Category 1	---	H318
Acute toxicity (Inhalation)	Category 4	---	H332
Specific target organ toxicity - repeated exposure (Inhalation)	Category 2	---	H373

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

Most important adverse effects

Human Health : See section 11 for toxicological information.
 Physical and chemical hazards : See section 9/10 for physicochemical information.
 Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure.

EDTA TETRASODIUM SALT 40%

Precautionary statements

Prevention	: P260 P264 P280	Do not breathe mist or vapours. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.
Response	: P305 + P351 + P338 + P310 P314	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Get medical advice/ attention if you feel unwell.
Disposal	: P501	Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH208 May produce an allergic reaction.

Hazardous components which must be listed on the label:

- tetrasodium ethylene diamine tetraacetate
- sodium hydroxide

2.3. Other hazards

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

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

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements

EDTA TETRASODIUM SALT 40%

tetrasodium ethylene diamine tetraacetate

Index-No.	: 607-428-00-2	>= 30 - < 50	Acute Tox.4 Oral	H302
CAS-No.	: 64-02-8		Acute Tox.4 Inhalation	H332
EC-No.	: 200-573-9		Eye Dam.1	H318
EU REACH-	: 01-2119486762-27-xxxx		STOT RE2 Inhalation	H373
Reg. No.				

Acute toxicity estimate
 Acute oral toxicity: 1780 mg/kg
 Acute inhalation toxicity (dust/mist): 1,5 mg/l

sodium hydroxide

Index-No.	: 011-002-00-6	>= 1 - < 2	Met. Corr.1	H290
CAS-No.	: 1310-73-2		Skin Corr.1A	H314
EC-No.	: 215-185-5		Eye Dam.1	H318
EU REACH-	: 01-2119457892-27-xxxx			
Reg. No.				

specific concentration limit
 Skin Irrit. 2; H315
 0,5 - < 2 %
 Eye Irrit. 2; H319
 0,5 - < 2 %
 Skin Corr. 1A; H314
 >= 5 %
 Skin Corr. 1B; H314
 2 - < 5 %

formaldehyde

Index-No.	: 605-001-00-5	< 0,1	Flam. Liq.3	H226
CAS-No.	: 50-00-0		Acute Tox.3 Dermal	H311
EC-No.	: 200-001-8		Acute Tox.3 Oral	H301
			Acute Tox.2 Inhalation	H330
			Skin Corr.1B	H314
			Eye Dam.1	H318
			Skin Sens.1	H317
			Muta.2	H341
			Carc.1B	H350

specific concentration limit
 Eye Irrit. 2; H319
 5 - < 25 %
 Skin Irrit. 2; H315
 5 - < 25 %
 STOT SE 3; H335
 >= 5 %
 Skin Corr. 1B; H314
 >= 25 %
 Skin Sens. 1; H317
 >= 0,2 %

Acute toxicity estimate
 Acute oral toxicity: 100 mg/kg
 Acute inhalation toxicity (vapour): 0,578 mg/l
 Acute dermal toxicity: 270 mg/kg

Note B
 Note D

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

EDTA TETRASODIUM SALT 40%

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice. If symptoms call a physician.
- In case of skin contact : After contact with skin, wash immediately with plenty of water. If symptoms call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible. Remove contact lenses after a few minutes and continue rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

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

- Symptoms : See Section 11 for more detailed information on health effects and symptoms.
- Effects : See Section 11 for more detailed information on health effects and symptoms.

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

- Treatment : Treat symptomatically. No further information available. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Specific hazards during : Incomplete combustion may form toxic pyrolysis products.

EDTA TETRASODIUM SALT 40%

firefighting
Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.
: Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Avoid formation of aerosol. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area.

EDTA TETRASODIUM SALT 40%

Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

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

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

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

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL
Workers, Long-term - local effects, Inhalation : 1,5 mg/m³

DNEL
Workers, Acute - local effects, Inhalation : 3 mg/m³

DNEL
Consumers, Long-term - local effects, Inhalation : 0,6 mg/m³

DNEL
Consumers, Acute - local effects, Inhalation : 1,2 mg/m³

DNEL
Consumers, Ingestion : 20 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water : 2,2 mg/l

EDTA TETRASODIUM SALT 40%

Marine water	:	0,22 mg/l
Sewage treatment plant (STP)	:	43 mg/l
Soil	:	0,72 mg/kg d.w.

Component:	sodium hydroxide	CAS-No. 1310-73-2
-------------------	-------------------------	--------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - local effects, Inhalation	:	1,0 mg/m ³
DNEL		
Consumers, Long-term - local effects, Inhalation	:	1,0 mg/m ³

Predicted No Effect Concentration (PNEC)

No PNEC value was derived. :

Other Occupational Exposure Limit Values

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA):
2 mg/m³

Component:	formaldehyde	CAS-No. 50-00-0
-------------------	---------------------	------------------------

Other Occupational Exposure Limit Values

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Short Term Exposure Limit (STEL):
0,3 ppm, 0,38 mg/m³, (15 minutes)

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,74 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,6 ppm

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Time Weighted Average (TWA):
0,3 ppm, 0,37 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Time Weighted Average (TWA):
0,5 ppm, 0,62 mg/m³

Netherlands. OELs (binding), as amended, Short Term Exposure Limit (STEL):

EDTA TETRASODIUM SALT 40%

0,5 mg/m³, (15 minutes)

Netherlands. OELs (binding), as amended, Time Weighted Average (TWA):
0,15 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,74 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,6 ppm

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Time Weighted Average (TWA):
0,3 ppm, 0,37 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Time Weighted Average (TWA):
0,5 ppm, 0,62 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
When aerosol or mist is formed use suitable respiratory protection.
Respiratory protection complying with EN 141.
Combination filter: A-P2

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber
Break through time : > 240 min
Glove thickness : 0,35 mm

Eye protection

Advice : Safety goggles

EDTA TETRASODIUM SALT 40%*Skin and body protection*

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	:	No data available
Physical state	:	liquid
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available
Freezing point	:	No data available
Boiling point/boiling range	:	105 - 110 °C
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	11 - 12 Concentration: 1 %
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available

EDTA TETRASODIUM SALT 40%

Water solubility : No data available

Solubility in other solvents : No data available

Dissolution Rate : No data available

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

Dispersion Stability : No data available

Vapour pressure : No data available

Relative density : 1,15 - 1,38

Density : No data available

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics
No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Conditions to avoid : Avoid high temperatures.

10.5. Incompatible materials

Materials to avoid : Copper, Aluminium, Zinc, Nickel

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides, Nitrogen oxides (NO_x)

EDTA TETRASODIUM SALT 40%

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Data for the product

Acute toxicity

Oral

Acute toxicity estimate : > 2000 mg/kg) (Calculation method)Based on available data, the classification criteria are not met.

Inhalation

Acute toxicity estimate : 1 - 5 mg/l (4 h; dust/mist) (Calculation method)Harmful if inhaled.

Dermal

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

Irritation

Skin

Result : Causes skin irritation.

Eyes

Result : Causes serious eye damage.

Sensitisation

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

CMR effects

CMR Properties

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

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

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

Specific Target Organ Toxicity

Single exposure

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

Repeated exposure

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

Other toxic properties

Repeated dose toxicity

EDTA TETRASODIUM SALT 40%

No data available

Aspiration hazard

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

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

Acute toxicity

Oral

LD50	:	1780 mg/kg (Rat, female) (OECD Test Guideline 401)Read-across (Analogy)
LD50	:	1913 mg/kg (Rat, male) (OECD Test Guideline 401)Read-across (Analogy)

Inhalation

LOAEC	:	ca. 0,030 mg/l (Rat, male; 6 h; dust/mist) (OECD Test Guideline 412)Read-across (Analogy)
-------	---	---

Dermal

No data available

Irritation

Skin

Result	:	No skin irritation (Rabbit; 4 h) (OECD Test Guideline 404)
--------	---	--

Eyes

Result	:	Causes serious eye damage. (Rabbit) (OECD Test Guideline 405)
--------	---	---

Sensitisation

Result	:	not sensitizing (Maximisation Test; Dermal; Guinea pig) (OECD Test Guideline 406)
--------	---	---

CMR effects

CMR Properties

Carcinogenicity	:	Animal testing did not show any carcinogenic effects. Read-across (Analogy)
Mutagenicity	:	In vitro tests did not show mutagenic effects
Teratogenicity	:	Did not show teratogenic effects in animal experiments.

EDTA TETRASODIUM SALT 40%

Reproductive toxicity : Animal testing did not show any effects on fertility.
Read-across (Analogy)

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

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

Other toxic properties

Aspiration hazard

Not applicable,

Component: sodium hydroxide CAS-No. 1310-73-2

Acute toxicity

Oral

No valid data available.

Inhalation

No valid data available.

Dermal

No valid data available.

Irritation

Skin

Result : Very corrosive (Rabbit) (No guideline followed)

Eyes

Result : corrosive effects (Rabbit; Test substance: 10% solution) (OECD Test Guideline 405)Equivalent or similar to OECD Guideline

Sensitisation

EDTA TETRASODIUM SALT 40%

Result : not sensitizing (Human) (No guideline followed) Patch test on human volunteers did not demonstrate sensitisation properties.

CMR effects

CMR Properties

Carcinogenicity : No experimental references for cancerogenity available.
 Mutagenicity : In vitro tests did not show mutagenic effects
 In vivo tests did not show mutagenic effects
 Teratogenicity : No data available
 Reproductive toxicity : Not expected to impair fertility.

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Aspiration hazard

Not applicable,

Component: formaldehyde CAS-No. 50-00-0

Acute toxicity

Oral

LD50 : 100 mg/kg (Rat)

Inhalation

LC50 : 0,578 mg/l (Rat; 4 h; vapour)

Dermal

LD50 : 270 mg/kg (Rabbit)

Irritation

EDTA TETRASODIUM SALT 40%

Skin

Result : Corrosive (Rabbit; 20 h) (OECD Test Guideline 404)

Eyes

Result : Irreversible damage. (Rabbit) (No guideline followed)

Sensitisation

Result : Causes sensitisation. (Local lymph node test; Dermal; Mouse)
(OECD Test Guideline 429)
Causes sensitisation. (Dermal; Human)

CMR effects

CMR Properties

Carcinogenicity : Human carcinogen.
Animal testing showed carcinogenic effects.

Mutagenicity : In vitro genetic toxicity studies were negative in some cases and positive in other cases
Results of tests with experimental animals from genetic toxicity studies were negative and positive.

Teratogenicity : Causes developmental effects in animals at high, maternally toxic doses.
Did not cause birth defects on laboratory animals.

Reproductive toxicity : No data available

Specific Target Organ Toxicity

Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
In animals tests effects have been reported on the following organs:
Kidney
Liver
Respiratory Tract
Skin

Other toxic properties

EDTA TETRASODIUM SALT 40%

Aspiration hazard

No aspiration toxicity classification,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

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

Component: tetrasodium ethylene diamine tetraacetate **CAS-No.** 64-02-8

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: sodium hydroxide **CAS-No.** 1310-73-2

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: formaldehyde **CAS-No.** 50-00-0

Endocrine disrupting properties

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

SECTION 12: Ecological information

12.1. Toxicity

Data for the product

Acute toxicity

Short-term (acute) aquatic hazard

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

Chronic toxicity

Long-term (chronic) aquatic hazard

EDTA TETRASODIUM SALT 40%

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

Component: tetrasodium ethylene diamine tetraacetate CAS-No. 64-02-8

Acute toxicity

Fish

LC50 : 121 mg/l (Lepomis macrochirus (Bluegill sunfish); 96 h) (static test; US-EPA)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 625 mg/l (Daphnia magna (Water flea); 24 h) (static test; DIN 38412)

algae

EC50 : > 100 mg/l (Scenedesmus subspicatus; 72 h) (static test; End point: Growth rate; Directive 67/548/EEC, Annex V, C.3.)

Component: sodium hydroxide CAS-No. 1310-73-2

Acute toxicity

Fish

LC50 : 125 mg/l (Gambusia affinis; 96 h) (No guideline followed)
 LC50 : 145 mg/l (Poecilia reticulata; 24 h) (No guideline followed)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 40,4 mg/l (Ceriodaphnia (water flea); 48 h) (No guideline followed)

algae

: No data available

Component: formaldehyde CAS-No. 50-00-0

Acute toxicity

Fish

LC50 : 6,7 mg/l (Morone saxatilis (Striped bass); 96 h) (static test; No guideline followed)

EDTA TETRASODIUM SALT 40%

Toxicity to daphnia and other aquatic invertebrates

EC50 : 5,8 mg/l (Daphnia pulex (Water flea); 48 h) (static test; OECD Test Guideline 202)

algae

EC50 : 4,89 mg/l (Desmodesmus subspicatus (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

Bacteria

EC50 : 34,1 mg/l (Microorganisms; 120 h) (static test; End point: Respiration inhibition; No guideline followed)The details of the toxic effect relate to the nominal concentration

Chronic toxicity

Fish

NOEC : \geq 48 mg/l (Oryzias latipes (Orange-red killifish); 28 d) (flow-through test; End point: mortality; OECD Test Guideline 215)

Aquatic invertebrates

NOEC \geq 6,4 mg/l (Daphnia magna (Water flea); 21 d) (semi-static test; End point: Reproduction; OECD Test Guideline 211)

12.2. Persistence and degradability

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

Persistence and degradability

Persistence

Result : The product is water soluble.

Biodegradability

Result : 10 % (aerobic; activated sludge; Related to: CO₂ formation (% of the theoretical value).; Exposure Time: 28 d)(OECD Test Guideline 301B)Not readily biodegradable.Read-across (Analogy)

Result : 0 - 10 % (aerobic; activated sludge; 400 mg/l; Related to: Dissolved organic carbon (DOC); Exposure Time: 28 d)(OECD

EDTA TETRASODIUM SALT 40%

Test Guideline 302B)Not readily biodegradable.Read-across (Analogy)

Component:	sodium hydroxide	CAS-No. 1310-73-2
-------------------	-------------------------	--------------------------

Persistence and degradability

Persistence

Result : No data available

Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

Component:	formaldehyde	CAS-No. 50-00-0
-------------------	---------------------	------------------------

Persistence and degradability

Persistence

Result : (Related to: Photolysis) The substance is rapidly degraded photochemically in the air.

Result : (Related to: Hydrolysis) The hydrolysis of the substance is not expected due to its structure.

Biodegradability

Result : 99 % (aerobic; activated sludge, non-adapted; 10 mg/l; Related to: Dissolved organic carbon (DOC); Exposure Time: 28 d)(OECD Test Guideline 301A)Readily biodegradable.

12.3. Bioaccumulative potential

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

Bioaccumulation

Result : BCF: ca. 1,8; (Lepomis macrochirus (Bluegill sunfish); 28 d; 21 °C; 0,08 mg/l) Bioaccumulation is not expected.

Component:	sodium hydroxide	CAS-No. 1310-73-2
-------------------	-------------------------	--------------------------

Bioaccumulation

Result : Does not bioaccumulate.

Component:	formaldehyde	CAS-No. 50-00-0
-------------------	---------------------	------------------------

Bioaccumulation

Result : log Kow 0,35 (25 °C) (Program KOWWIN)
: Bioaccumulation is not expected.

EDTA TETRASODIUM SALT 40%

12.4. Mobility in soil

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

Mobility

Water : The product is water soluble.
 Air : not volatile
 Soil : Will not adsorb on soil.

Component:	sodium hydroxide	CAS-No. 1310-73-2
-------------------	-------------------------	--------------------------

Mobility

Water : Good soluble in water.
 Air : not volatile
 Soil : Low potential for adsorption (based on substance properties).

Component:	formaldehyde	CAS-No. 50-00-0
-------------------	---------------------	------------------------

Mobility

Water : The product is water soluble., The substance will not evaporate into the atmosphere from the water surface.
 Soil : Adsorption to solid soil phase is possible.

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : 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.

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Component:	sodium hydroxide	CAS-No. 1310-73-2
-------------------	-------------------------	--------------------------

Results of PBT and vPvB assessment

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component:	formaldehyde	CAS-No. 50-00-0
-------------------	---------------------	------------------------

EDTA TETRASODIUM SALT 40%

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Data for the product

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

Component: tetrasodium ethylene diamine tetraacetate CAS-No. 64-02-8

Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component: sodium hydroxide CAS-No. 1310-73-2

Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

Component: formaldehyde CAS-No. 50-00-0

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

12.7. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Result :

Component: tetrasodium ethylene diamine tetraacetate CAS-No. 64-02-8

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component: sodium hydroxide CAS-No. 1310-73-2

Additional ecological information

Result : Harmful effects to aquatic organisms due to pH-shift.
Neutralization is normally necessary before waste water is

EDTA TETRASODIUM SALT 40%

discharged into water treatment plants.
Do not flush into surface water or sanitary sewer system.

Component:	formaldehyde	CAS-No. 50-00-0
-------------------	---------------------	------------------------

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number or ID number

3267

14.2. UN proper shipping name

- ADR** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(tetrasodium ethylene diamine tetraacetate)
- RID** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(tetrasodium ethylene diamine tetraacetate)
- IMDG** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(tetrasodium ethylene diamine tetraacetate)

14.3. Transport hazard class(es)

- ADR-Class : 8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 8; C7; 80; (E)
- RID-Class : 8
(Labels; Classification Code; Hazard Identification Number) 8; C7; 80

EDTA TETRASODIUM SALT 40%

IMDG-Class : 8
(Labels; EmS) 8; F-A, S-B

14.4. Packaging group

ADR : III
RID : III
IMDG : III

14.5. Environmental hazards

Environmentally hazardous according to ADR : no
Environmentally hazardous according to RID : no
Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Component:	tetrasodium ethylene diamine tetraacetate	CAS-No. 64-02-8
-------------------	--	------------------------

EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

EDTA TETRASODIUM SALT 40%

Component: sodium hydroxide CAS-No. 1310-73-2

EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : Point Nos.: , 75; Listed.

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 215-185-5; Listed

EU. Regulation No. 1223/2009 on cosmetic products, Annex III: List of Restricted Substances in Cosmetic Products : Maximum concentration in ready for use preparation: 2 %; Hair straightener: General use; See the text of the regulation for applicable exceptions or provisions.

pH < 12,7.; pH adjuster for depilatories; See the text of the regulation for applicable exceptions or provisions.

Maximum concentration in ready for use preparation: 4,5 %; Hair straightener: Professional use; See the text of the regulation for applicable exceptions or provisions.

pH < 11.; Uses as pH adjuster other than for depilatories; See the text of the regulation for applicable exceptions or provisions.

Maximum concentration in ready for use preparation: 5 %; Nail cuticle solvent; See the text of the regulation for applicable exceptions or provisions.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

Component: formaldehyde CAS-No. 50-00-0

EU. Chemicals Subject : ; The substance/mixture does not fall under this legislation.

EDTA TETRASODIUM SALT 40%

to PIC Procedure:
Regulation 649/2012/EU
on export and import of
dangerous chemicals, as
amended

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed.

Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. REACH, Annex XVII, , 28; Carcinogenicity; Category 1B

Appendix 2, Entry 28 -
Carcinogens: Category
1B (CLP Table 3 of Anx
VI). (Reg. 1907/2006/EC)

EU. REACH, Annex XVII, Point Nos.: 0,1, %, 28; Restricted to professional users.; Listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

Point Nos.: , 75; Listed

Point Nos.: , 72; Listed

EU. Regulation No : EC Number: , 200-001-8; Listed
1451/2007 [Biocides],
Annex I, OJ (L 325)

EU. Regulation No. : Maximum concentration in ready for use preparation: 5 %; Nail
1223/2009 on cosmetic hardening products; See the text of the regulation for
products, Annex III: List applicable exceptions or provisions.
of Restricted Substances
in Cosmetic Products

EU. Regulation No. Maximum concentration in ready for use preparation: 0,1 % 5;
1223/2009 on cosmetic Oral products; See the text of the regulation for applicable
products, Annex V: List exceptions or provisions.
of Preservatives Allowed

in Cosmetic Products

Maximum concentration in ready for use preparation: 0,2 % 5;
Products other than oral products; See the text of the
regulation for applicable exceptions or provisions.

EU. Directive : Qualifying quantity for the application of Lower-tier
2012/18/EU (SEVESO requirements: 5 tonnes; Part 2: Named dangerous substances;
III) on major accident List ID 14: Formaldehyde (concentration \geq 90%), see note 7
hazards involving
dangerous substances,
Annex I

Qualifying quantity for the application of Upper-tier

EDTA TETRASODIUM SALT 40%

requirements: 50 tonnes; Part 2: Named dangerous substances; List ID 14: Formaldehyde (concentration $\geq 90\%$), see note 7

EU. Substances, Mixtures, Related Processes: Annex I & Art. 2, Dir 2004/37/EC (CMRD), as amended : Hazard Designation: ; Carcinogen/Mutagen

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended : Hazard Designation: ; Irritant

Hazard Designation: ; Carcinogen/Mutagen

Netherlands. Carcinogenic substances and processes, as amended : Hazard Designation: ; Carcinogenic

15.2. Chemical safety assessment

The chemical safety assessment of substances from this mixture has been done.

SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

EDTA TETRASODIUM SALT 40%

Full text of the Notes referred to under section 3.

Note B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
Note D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration

EDTA TETRASODIUM SALT 40%

NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

Further information

- Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
- Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
- Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
- Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
- The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in

EDTA TETRASODIUM SALT 40%

the text.

|| Indicates updated section.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

No.	Short title	Main User Group (SU)	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Article Category (AC)	Specified
1	Use as an intermediate	3	NA	NA	1, 2, 3, 4, 5, 8a, 8b, 9, 15	6a	NA	ES944
2	Use in industrial processes in which the substance is consumed	3	NA	NA	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 17, 18, 21	4, 5, 6a, 6b, 6c, 6d, 7	NA	ES1145
3	Formulation & (re)packing of substances and mixtures	3	NA	NA	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 10, 14, 15, 19	2, 3	NA	ES908
4	Use in spraying formulations	3	NA	NA	7, 8a, 8b	4, 5, 6a, 6b, 6c, 6d, 7	NA	ES1147
5	Use in non-spraying formulations	3	NA	NA	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 10, 13, 14, 15, 17, 18, 19, 21	4, 5, 6a, 6b, 6c, 6d, 7	NA	ES1149
6	Use in spraying formulations	22	NA	NA	8a, 8b, 11	8a, 8b, 8c, 8d, 8e, 8f, 9a, 9b	NA	ES1412
7	Use in non-spraying formulations	22	NA	NA	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 10, 13, 14, 15, 17, 18, 19, 21	8a, 8b, 8c, 8d, 8e, 8f, 9a, 9b	NA	ES1414
8	Industrial use	3	NA	NA	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 10, 12, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24	4, 5, 6b, 7	NA	ES948
9	Professional use	22	NA	NA	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 23, 24	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1020

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

10	Use in adhesives and sealants	21	NA	1	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1040
11	Uses in coatings	21	NA	9a, 9b	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1048
12	Use in Cleaning Agents	21	NA	35	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1114
13	Use in road and construction applications	3	13, 19	NA	5, 24	3, 5, 6a, 6b, 6c, 6d, 7, 12a, 12b	NA	ES1152
14	Use in road and construction applications	22	13, 19	NA	5, 24	8a, 8b, 8c, 8d, 8e, 8f, 10a, 11a	NA	ES1417
15	Use in metal surface treatment.	21	NA	14	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1051
16	Use in surface treatment products	21	NA	15, 31	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1053
17	Use in/as air care products (spray products)	21	NA	3	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1043
18	Use in textile industry	21	NA	34	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1111
19	Use in/as photochemicals	21	NA	30	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1056
20	Use in biocidal products	21	NA	8	NA	8a, 8c, 8d, 8f, 9a, 9b	NA	ES1045
21	Other consumer uses	21	NA	12, 18, 20, 23, 24, 26, 28, 29, 32, 36, 37, 39	NA	8a, 8b, 8c, 8d, 8e, 8f, 9a, 9b	NA	ES1579

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 1: Use as an intermediate

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	<p>PROC1: Use in closed process, no likelihood of exposure</p> <p>PROC2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC3: Use in closed batch process (synthesis or formulation)</p> <p>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC15: Use as laboratory reagent</p>
Environmental Release Categories	ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

2.1 Contributing scenario controlling environmental exposure for: ERC6a

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 100%
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Technical conditions and measures to control dispersion from source towards the worker	Provide extraction ventilation at points where emissions occur. (Efficiency: 90 %)(PROC4, PROC5, PROC8a, PROC8b, PROC9)	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene	Use suitable eye protection. Wear suitable protective clothing.	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

and health evaluation

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

2.3 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 0% - 55%
	Physical Form (at time of use)	Liquid, low fugacity
	Vapour pressure	< 0,0001 hPa
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Workers

Use of ECETOC TRA Version 2 with modifications.

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1	See section 2.2	Worker - inhalative, long-term - local	0,01mg/m ³	0,004
PROC2, PROC15	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2
PROC3	See section 2.2	Worker - inhalative, long-term - local	1mg/m ³	0,4
PROC4, PROC5, PROC8a, PROC8b, PROC9	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2

Dermal exposure is not considered to be relevant.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 2: Use in industrial processes in which the substance is consumed

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

2.1 Contributing scenario controlling environmental exposure for: ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7

Amount used	Annual site tonnage (tons/year):	8,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year (ERC4)
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Flow rate of sewage treatment plant effluent	2.000 m3/d

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Degradation efficiency	70 %
------------------------	------

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC13, PROC17, PROC18, PROC21

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	solid, liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
	Under the condition(s):, no aerosols are formed	
Technical conditions and measures to control dispersion from source towards the worker	Provide local exhaust ventilation (LEV). (Efficiency: 90 %)(PROC8a, PROC8b, PROC9)	

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	---	Water	PEC	2,20mg/L	---

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC8a, PROC8b, PROC9	with local exhaust ventilation	Inhalation worker exposure	1,80mg/m ³	---
PROC8a, PROC8b, PROC9	with local exhaust ventilation, With respiratory protection	Inhalation worker exposure	0,87mg/m ³	---

Dermal exposure is not considered to be relevant.

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

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006***EDTA Tetrasodium salt**

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

be necessary to define appropriate site-specific risk management measures.
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
For scaling see: <https://www.stoffenmanager.nl/default.aspx>
The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated.
Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 3: Formulation & (re)packing of substances and mixtures

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	<p>PROC1: Use in closed process, no likelihood of exposure</p> <p>PROC2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC3: Use in closed batch process (synthesis or formulation)</p> <p>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC6: Calendering operations</p> <p>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC10: Roller application or brushing</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p> <p>PROC15: Use as laboratory reagent</p> <p>PROC19: Hand-mixing with intimate contact and only PPE available</p>
Environmental Release Categories	<p>ERC2: Formulation of preparations</p> <p>ERC3: Formulation in materials</p>

2.1 Contributing scenario controlling environmental exposure for: ERC2, ERC3

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Technical conditions and measures to control dispersion from source towards the worker	Provide extraction ventilation at points where emissions occur. (Efficiency: 90 %)(PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC19)	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Organisational measures to prevent /limit releases, dispersion and exposure

Provide basic employee training to prevent/minimize exposures
Regular inspection and maintenance of equipment and machines.

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

Use suitable eye protection.
Wear suitable protective clothing.
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

2.3 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	< 15 min
Other operational conditions affecting workers exposure	Indoor use.	
Technical conditions and measures to control dispersion from source towards the worker	Provide extraction ventilation at points where emissions occur. (Efficiency: 90 %)(PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC19)	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.	

2.4 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 2,5%
	Physical Form (at time of use)	Solid, high dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

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

Use suitable eye protection.
Wear suitable protective clothing.

2.5 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 0% - 55%
	Physical Form (at time of use)	Liquid, low fugacity
	Vapour pressure	< 0,0001 hPa
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection.	
	Wear suitable protective clothing.	

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Workers

Use of ECETOC TRA Version 2 with modifications.

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC1	See section 2.2	Worker - inhalative, long-term - local	0,01mg/m ³	0,004
PROC2	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2
PROC3	See section 2.2	Worker - inhalative, long-term - local	1mg/m ³	0,4
PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

PROC14	See section 2.2	Worker - inhalative, long-term - local	1 mg/m ³	0,4
PROC15, PROC19	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2
PROC1	See section 2.3	Worker - inhalative, long-term - local	0,001mg/m ³	0,0004
PROC2, PROC15	See section 2.3	Worker - inhalative, long-term - local	0,05mg/m ³	0,02
PROC3, PROC14	See section 2.3	Worker - inhalative, long-term - local	0,1mg/m ³	0,04
PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC19	See section 2.3	Worker - inhalative, long-term - local	0,05mg/m ³	0,02
PROC1	See section 2.4	Worker - inhalative, long-term - local	0,0003mg/m ³	0,0001
PROC2, PROC3, PROC14	See section 2.4	Worker - inhalative, long-term - local	0,025mg/m ³	0,01
PROC4, PROC5, PROC8b, PROC19	See section 2.4	Worker - inhalative, long-term - local	0,625mg/m ³	0,25
PROC8a	See section 2.4	Worker - inhalative, long-term - local	1,25mg/m ³	0,5
PROC9	See section 2.4	Worker - inhalative, long-term - local	0,5mg/m ³	0,2

Dermal exposure is not considered to be relevant.

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

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.
 Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
 Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
 For scaling see: <http://www.ecetoc.org/tra>
 Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 4: Use in spraying formulations

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
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
Environmental Release Categories	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b: Industrial use of reactive processing aids ERC6c: Industrial use of monomers for manufacture of thermoplastics ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers ERC7: Industrial use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7

Amount used	Annual site tonnage (tons/year):	8,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Flow rate of sewage treatment plant effluent	2.000 m3/d
	Degradation efficiency	70 %

2.2 Contributing scenario controlling worker exposure for: PROC7, PROC8a, PROC8b

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 10%
	Physical Form (at time of use)	liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Conditions and measures related to personal protection, hygiene	Wear respiratory protection. Particle filter:P2(PROC7)	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

and health evaluation

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	---	Water	PEC	2,2mg/L	---

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC7, PROC11	With respiratory protection	Inhalation worker exposure	1,53mg/m ³	---

Dermal exposure is not considered to be relevant.

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated.

The worker exposure has been evaluated using Stoffenmanager 4.0 (www.stoffenmanager.nl)

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 5: Use in non-spraying formulations

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

2.1 Contributing scenario controlling environmental exposure for: ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7

Amount used	Annual site tonnage (tons/year):	8,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Flow rate of sewage treatment plant effluent	2.000 m3/d
	Degradation efficiency	70 %

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC10, PROC13, PROC14, PROC15, PROC17, PROC18, PROC21

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Technical conditions and measures to control dispersion from source towards the worker	Provide local exhaust ventilation (LEV). (Efficiency: 70 %)(PROC14)	
Conditions and measures related to personal protection, hygiene and health evaluation	Wear suitable gloves during the activities where skin contact is possible.	

2.3 Contributing scenario controlling worker exposure for: PROC8a, PROC8b, PROC9, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 50%
	Physical Form (at time of use)	solid
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Conditions and measures related to personal protection, hygiene and health evaluation	Wear respiratory protection. Particle filter:P2 Wear suitable gloves during the activities where skin contact is possible.(PROC8a, PROC8b, PROC9)	
	Wear respiratory protection. Particle filter:P3 Wear suitable gloves during the activities where skin contact is possible.(PROC19)	

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	---	Water	PEC	2,20mg/L	---

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC14	with local exhaust ventilation	Inhalation worker exposure	1,80mg/m ³	---
PROC14	with local exhaust ventilation, With respiratory protection	Inhalation worker exposure	1,64mg/m ³	---
PROC8a, PROC8b, PROC9	With respiratory protection	Inhalation worker exposure	1,75mg/m ³	---
PROC19	With respiratory protection	Inhalation worker exposure	1,998mg/m ³	---

Dermal exposure is not considered to be relevant.

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

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.
 Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
 Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
 The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated.
 The worker exposure has been evaluated using Stoffenmanager 4.0 (www.stoffenmanager.nl)
 Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 6: Use in spraying formulations

Main User Groups	SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
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 PROC11: Non industrial spraying
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b

Amount used	Annual site tonnage (tons/year):	8,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Flow rate of sewage treatment plant effluent	2.000 m ³ /d
	Degradation efficiency	70 %

2.2 Contributing scenario controlling worker exposure for: PROC8a, PROC8b, PROC11

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 10%
	Physical Form (at time of use)	liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Conditions and measures related to personal protection, hygiene and health evaluation	Wear respiratory protection. Particle filter:P2(PROC7, PROC11)	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b	---	Water	PEC	2,2mg/L	---

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC7, PROC11	With respiratory protection	Inhalation worker exposure	1,53mg/m ³	---

Dermal exposure is not considered to be relevant.

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated.

The worker exposure has been evaluated using Stoffenmanager 4.0 (www.stoffenmanager.nl)

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 7: Use in non-spraying formulations

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

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b

Amount used	Annual site tonnage (tons/year):	8,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Flow rate of sewage treatment plant effluent	2.000 m3/d
Degradation efficiency	70 %

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC10, PROC13, PROC14, PROC15, PROC17, PROC18, PROC21

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Technical conditions and measures to control dispersion from source towards the worker	Provide local exhaust ventilation (LEV). (Efficiency: 70 %)(PROC14)	
Conditions and measures related to personal protection, hygiene and health evaluation	Wear suitable gloves during the activities where skin contact is possible.	

2.3 Contributing scenario controlling worker exposure for: PROC8a, PROC8b, PROC9, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 50%
	Physical Form (at time of use)	solid
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Conditions and measures related to personal protection, hygiene and health evaluation	Wear respiratory protection. Particle filter:P2 Wear suitable gloves during the activities where skin contact is possible.(PROC8a, PROC8b, PROC9)	
	Wear respiratory protection. Particle filter:P3 Wear suitable gloves during the activities where skin contact is possible.(PROC19)	

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a, ERC8b,	---	Water	PEC	2,20mg/L	---

PA102749_001

21/60

EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

ERC8c, ERC8d,
ERC8e, ERC8f,
ERC9a, ERC9b

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC14	with local exhaust ventilation	Inhalation worker exposure	1,80mg/m ³	---
PROC14	with local exhaust ventilation, With respiratory protection	Inhalation worker exposure	1,64mg/m ³	---
PROC8a, PROC8b, PROC9	With respiratory protection	Inhalation worker exposure	1,75mg/m ³	---
PROC19	With respiratory protection	Inhalation worker exposure	1,998mg/m ³	---

Dermal exposure is not considered to be relevant.

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

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. Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated. The worker exposure has been evaluated using Stoffenmanager 4.0 (www.stoffenmanager.nl) Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 8: Industrial use

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	<p>PROC1: Use in closed process, no likelihood of exposure</p> <p>PROC2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC3: Use in closed batch process (synthesis or formulation)</p> <p>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC6: Calendering operations</p> <p>PROC7: Industrial spraying</p> <p>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC10: Roller application or brushing</p> <p>PROC12: use of blowing agents in manufacture of foam</p> <p>PROC13: Treatment of articles by dipping and pouring</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p> <p>PROC15: Use as laboratory reagent</p> <p>PROC17: Lubrication at high energy conditions and in partly open process</p> <p>PROC18: Greasing at high energy conditions</p> <p>PROC19: Hand-mixing with intimate contact and only PPE available</p> <p>PROC21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC22: Potentially closed processing operations with minerals/metals at elevated temperature; industrial setting</p> <p>PROC23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles</p>
Environmental Release Categories	<p>ERC4: Industrial use of processing aids in processes and products, not becoming part of articles</p> <p>ERC5: Industrial use resulting in inclusion into or onto a matrix</p> <p>ERC6b: Industrial use of reactive processing aids</p> <p>ERC7: Industrial use of substances in closed systems</p>

2.1 Contributing scenario controlling environmental exposure for: ERC4, ERC5, ERC6b, ERC7

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling worker exposure for: PROC14, PROC15, PROC19

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Technical conditions and measures to control dispersion from source towards the worker	Provide extraction ventilation at points where emissions occur. (Efficiency: 90 %)	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.	

2.3 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC19, PROC21, PROC22, PROC23, PROC24

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

2.4 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 20%
	Physical Form (at time of use)	Solid, low dustiness

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

	use)	
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

2.5 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 0% - 55%
	Physical Form (at time of use)	Liquid, low fugacity
	Vapour pressure	< 0,0001 hPa
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

2.6 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 10%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions	Indoor/Outdoor use.	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

affecting workers exposure

Organisational measures to prevent /limit releases, dispersion and exposure

Provide basic employee training to prevent/minimize exposures
Regular inspection and maintenance of equipment and machines.

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

Use suitable eye protection.
Wear suitable protective clothing.

2.7 Contributing scenario controlling worker exposure for: PROC7

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 0% - 3%
	Physical Form (at time of use)	liquid, (non viscous)
	Process Temperature	50 - 150 °C
Amount used	Amount per Use	3 L/min
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	360 min
Other operational conditions affecting workers exposure	Indoor use.	
Technical conditions and measures to control dispersion from source towards the worker	Ensure doors and windows are opened.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Ensure that the task is carried out only downward Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

2.8 Contributing scenario controlling worker exposure for: PROC17, PROC18

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 1% - 5%
	Physical Form (at time of use)	viscous liquid
	Process Temperature	50 - 150 °C
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	360 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

and exposure

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

Use suitable eye protection.
Wear suitable protective clothing.

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Workers

PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19, PROC21, PROC22, PROC23, PROC24

Use of ECETOC TRA Version 2 with modifications.

PROC7, PROC17, PROC18 Advanced REACH Tool (ART model)

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC14	See section 2.2	Worker - inhalative, long-term - local	1mg/m ³	0,4
PROC15, PROC19	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2
PROC1	See section 2.3	Worker - inhalative, long-term - local	0,0005mg/m ³	0,0002
PROC2	See section 2.3	Worker - inhalative, long-term - local	0,025mg/m ³	0,01
PROC3, PROC14	See section 2.3	Worker - inhalative, long-term - local	0,05mg/m ³	0,02
PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19	See section 2.3	Worker - inhalative, long-term - local	0,25mg/m ³	0,1
PROC21, PROC22, PROC23, PROC24	See section 2.3	Worker - inhalative, long-term - local	0,15mg/m ³	0,06
PROC1, PROC2	See section 2.4	Worker - inhalative, long-term - local	0,002mg/m ³	0,0008
PROC3, PROC9, PROC13, PROC14, PROC15	See section 2.4	Worker - inhalative, long-term - local	0,02mg/m ³	0,008
PROC4, PROC5, PROC8a,	See section 2.4	Worker - inhalative, long-term - local	0,1mg/m ³	0,04

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

PROC8b, PROC10, PROC19				
PROC1	See section 2.6	Worker - inhalative, long-term - local	0,012mg/m ³	0,005
PROC2, PROC3, PROC4, PROC8a, PROC8b	See section 2.6	Worker - inhalative, long-term - local	0,122mg/m ³	0,05
PROC7	See section 2.7	Worker - inhalative, long-term - local	1,3mg/m ³	0,52
PROC17, PROC18	See section 2.8	Worker - inhalative, long-term - local	1,2mg/m ³	0,48

Dermal exposure is not considered to be relevant.

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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

For scaling see: <http://www.advancedreachtool.com>

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 9: Professional use

Main User Groups	SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	<p>PROC1: Use in closed process, no likelihood of exposure</p> <p>PROC2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC3: Use in closed batch process (synthesis or formulation)</p> <p>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC6: Calendring operations</p> <p>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC10: Roller application or brushing</p> <p>PROC11: Non industrial spraying</p> <p>PROC12: use of blowing agents in manufacture of foam</p> <p>PROC13: Treatment of articles by dipping and pouring</p> <p>PROC14: Production of preparations or articles by tableting, compression, extrusion, pelettisation</p> <p>PROC15: Use as laboratory reagent</p> <p>PROC17: Lubrication at high energy conditions and in partly open process</p> <p>PROC18: Greasing at high energy conditions</p> <p>PROC19: Hand-mixing with intimate contact and only PPE available</p> <p>PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems</p> <p>PROC21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles</p>
Environmental Release Categories	<p>ERC8a: Wide dispersive indoor use of processing aids in open systems</p> <p>ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix</p> <p>ERC8d: Wide dispersive outdoor use of processing aids in open systems</p> <p>ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix</p> <p>ERC9a: Wide dispersive indoor use of substances in closed systems</p> <p>ERC9b: Wide dispersive outdoor use of substances in closed systems</p>

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

2.2 Contributing scenario controlling worker exposure for: PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Technical conditions and measures to control dispersion from source towards the worker	Provide extraction ventilation at points where emissions occur. (Efficiency: 90 %)	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.	

2.3 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19, PROC21, PROC23, PROC24

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	Solid, medium dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

2.4 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 20%
-------------------------	---	--

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

	Physical Form (at time of use)	Solid, low dustiness
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection.	
	Wear suitable protective clothing.	
2.5 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC19		
Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 0% - 55%
	Physical Form (at time of use)	Liquid, low fugacity
	Vapour pressure	< 0,0001 hPa
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection.	
	Wear suitable protective clothing.	
2.6 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC20		
Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 10%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	480 min
PA102749_001	31/60	EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Other operational conditions affecting workers exposure	Indoor/Outdoor use.
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.

2.7 Contributing scenario controlling worker exposure for: PROC11

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 0% - 3%
	Physical Form (at time of use)	liquid
	Process Temperature	50 - 150 °C
Amount used	Amount per Use	3 L/min
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	360 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection. Wear suitable protective clothing.	

2.8 Contributing scenario controlling worker exposure for: PROC17, PROC18

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 5% - 10%
	Physical Form (at time of use)	liquid
	Process Temperature	50 - 150 °C
Frequency and duration of use	Frequency of use	220 days/year
	Exposure duration per day	360 min
Other operational conditions affecting workers exposure	Indoor use.	
Organisational measures to prevent /limit releases, dispersion and exposure	Provide basic employee training to prevent/minimize exposures Regular inspection and maintenance of equipment and machines.	
Conditions and measures related	Use suitable eye protection.	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

to personal protection, hygiene and health evaluation

Wear suitable protective clothing.

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Workers

PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC16, PROC19, PROC20, PROC21, PROC23, PR

Use of ECETOC TRA Version 2 with modifications. PROC11, PROC17, PROC18 Advanced REACH Tool (ART model)

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC14, PROC15, PROC16	See section 2.2	Worker - inhalative, long-term - local	0,5mg/m ³	0,2
PROC1	See section 2.3	Worker - inhalative, long-term - local	0,0005mg/m ³	0,0002
PROC2, PROC3	See section 2.3	Worker - inhalative, long-term - local	0,05mg/m ³	0,02
PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC19, PROC21, PROC23, PROC24	See section 2.3	Worker - inhalative, long-term - local	0,25mg/m ³	0,1
PROC15	See section 2.3	Worker - inhalative, long-term - local	0,025mg/m ³	0,01
PROC1, PROC2	See section 2.4	Worker - inhalative, long-term - local	0,002mg/m ³	0,0008
PROC3, PROC15	See section 2.4	Worker - inhalative, long-term - local	0,02mg/m ³	0,008
PROC4, PROC5, PROC14	See section 2.4	Worker - inhalative, long-term - local	0,2mg/m ³	0,08
PROC8a, PROC8b, PROC9, PROC10, PROC13,	See section 2.4	Worker - inhalative, long-term - local	0,1mg/m ³	0,04

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

PROC19				
PROC1	See section 2.6	Worker - inhalative, long-term - local	0,012mg/m ³	0,005
PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC20	See section 2.6	Worker - inhalative, long-term - local	0,122mg/m ³	0,05
PROC11	See section 2.7	Worker - inhalative, long-term - local	1,3mg/m ³	0,52
PROC17, PROC18	See section 2.8	Worker - inhalative, long-term - local	1,2mg/m ³	0,48

Dermal exposure is not considered to be relevant.

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

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.
 Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
 Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
 For scaling see: <http://www.ecetoc.org/tra>
 For scaling see: <http://www.advancedreachtool.com>
 Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 10: Use in adhesives and sealants

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC1: Adhesives, sealants
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC1: DIY-use: Glues from tubes, bottled glue

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	12 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	20 m3

2.3 Contributing scenario controlling consumer exposure for: PC1: DIY-use: Super glue, bottled glue, carpet glue

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	52 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	58 m3

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006***EDTA Tetrasodium salt**

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

3. Exposure estimation and reference to its source**Environment**

No exposure assessment presented for the environment.

Consumers

The calculated exposure value is negligibly low.

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 11: Uses in coatings

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC9a: Coatings and paints, thinners, paint removers PC9b: Fillers, putties, plasters, modelling clay
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC9a

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Frequency of use	5 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	34 m3

2.3 Contributing scenario controlling consumer exposure for: PC9b

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	liquid
Frequency and duration of use	Frequency of use	3 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	57,5 m3

3. Exposure estimation and reference to its source

PA102749_001

37/60

EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Environment

No exposure assessment presented for the environment.

Consumers

ConsExpo 4.1

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC9a	---	Consumer - inhalative, short-term - local and systemic	0,338mg/m ³	0,225
PC9b	---	Consumer - inhalative, short-term - local and systemic	0,266mg/m ³	0,177

Dermal exposure is not considered to be relevant.

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

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.
 Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
 Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
 For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>
 Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 12: Use in Cleaning Agents

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC35

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid, spray aerosol
Amount used	Powder detergent	200 g
	Spray detergent	70 g
Frequency and duration of use	Frequency of use	10 days/year
	Exposure duration	100 min
Other given operational conditions affecting consumers exposure	Indoor use.	
	Room size	58 m3
	Outdoor use.	

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

ConsExpo 4.1

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC35	---	Consumer - inhalative,	0,0003mg/m ³	0,0002

PA102749_001

39/60

EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

	short-term - local and systemic	
--	---------------------------------	--

Dermal exposure is not considered to be relevant.

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

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.
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>
Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 13: Use in road and construction applications

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	SU13: Manufacture of other non-metallic mineral products, e.g. plasters, cement SU19: Building and construction work
Process categories	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles
Environmental Release Categories	ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) ERC6b: Industrial use of reactive processing aids ERC6c: Industrial use of monomers for manufacture of thermoplastics ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers ERC7: Industrial use of substances in closed systems ERC12a: Industrial processing of articles with abrasive techniques (low release) ERC12b: Industrial processing of articles with abrasive techniques (high release)

2.1 Contributing scenario controlling environmental exposure for: ERC3, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ERC12a, ERC12b

Amount used	Annual site tonnage (tons/year):	17,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Flow rate of sewage treatment plant effluent	2.000 m3/d
	Degradation efficiency	70 %

2.2 Contributing scenario controlling worker exposure for: PROC5

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	solid, liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Technical conditions and measures to control dispersion from source towards the worker

Provide local exhaust ventilation with enclosure of the source (Efficiency: 90 %)

2.3 Contributing scenario controlling worker exposure for: PROC24

Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 2%
	Physical Form (at time of use)	solid, liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Conditions and measures related to personal protection, hygiene and health evaluation	Wear respiratory protection.	
	Particle filter:P2	

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC3, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	---	Water	PEC	2,20mg/L	---

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC5	with local exhaust ventilation	Inhalation worker exposure	1,80mg/m ³	---
PROC5	with local exhaust ventilation, With respiratory protection	Inhalation worker exposure	0,87mg/m ³	---
PROC24	---	Inhalable dust.	1,38mg/m ³	---
PROC24	---	Inhalable liquid	0,00mg/m ³	---

Dermal exposure is not considered to be relevant.

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

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006***EDTA Tetrasodium salt**

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated.

The worker exposure has been evaluated using Stoffenmanager 4.0 (www.stoffenmanager.nl)

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 14: Use in road and construction applications

Main User Groups	SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	SU13: Manufacture of other non-metallic mineral products, e.g. plasters, cement SU19: Building and construction work
Process categories	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release ERC11a: Wide dispersive indoor use of long-life articles and materials with low release

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC10a, ERC11a

Amount used	Annual site tonnage (tons/year):	17,6 ton(s)/year
Frequency and duration of use	Continuous exposure	200 days/year
Environment factors not influenced by risk management	Dilution Factor (River)	10
	Dilution Factor (Coastal Areas)	100
Conditions and measures related to sewage treatment plant	Type of Sewage Treatment Plant	Municipal sewage treatment plant
	Flow rate of sewage treatment plant effluent	2.000 m3/d
	Degradation efficiency	70 %

2.2 Contributing scenario controlling worker exposure for: PROC5

Product characteristics	Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently).
	Physical Form (at time of use)	solid, liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Technical conditions and	Provide local exhaust ventilation with enclosure of the source (Efficiency: 90 %)	

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

measures to control dispersion
from source towards the worker

2.3 Contributing scenario controlling worker exposure for: PROC24

Product characteristics	Concentration of the Substance in Mixture/Article	Covers concentrations up to 2%
	Physical Form (at time of use)	solid, liquid
	Vapour pressure	< 0,01 hPa
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	480 min
Conditions and measures related to personal protection, hygiene and health evaluation	Wear respiratory protection. Particle filter:P2	

3. Exposure estimation and reference to its source

Environment

EUSES 2.1

Contributing Scenario	Specific conditions	Compartment	Value	Level of Exposure	RCR
ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC10a, ERC10b	---	Water	PEC	2,20mg/L	---

Workers

Stoffenmanager V4.0

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PROC5	with local exhaust ventilation	Inhalation worker exposure	1,80mg/m ³	---
PROC5	with local exhaust ventilation, With respiratory protection	Inhalation worker exposure	0,87mg/m ³	---
PROC24	---	Inhalable dust.	1,37mg/m ³	---
PROC24	---	Inhalable liquid	0,00mg/m ³	---

Dermal exposure is not considered to be relevant.

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

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006***EDTA Tetrasodium salt**

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

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.
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
The environmental emission has been evaluated using EUSES 2.1 (<http://ecb.jrc.ec.europa.eu/euses>), in which default values have been used, unless otherwise indicated.
The worker exposure has been evaluated using Stoffenmanager 4.0 (www.stoffenmanager.nl)
Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 15: Use in metal surface treatment.

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC14: Metal surface treatment products, including galvanic and electroplating products
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC14

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	6 days/year
	Exposure duration	60 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	15 m3

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

No consumer exposure anticipated.

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

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.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 16: Use in surface treatment products

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC15: Non-metal-surface treatment products PC31: Polishes and wax blends
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC15: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	60 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	15 m3

2.3 Contributing scenario controlling consumer exposure for: PC15: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Exposure duration	110 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	58 m3

2.4 Contributing scenario controlling consumer exposure for: PC31: Polishes, spray (furniture,

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

shoes)

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	8 days/year
	Exposure duration per day	90 min
Other given operational conditions affecting consumers exposure	Indoor use.	
	Room size	58 m ³
	Outdoor use.	

2.5 Contributing scenario controlling consumer exposure for: PC31: Polishes, wax / cream (floor, furniture, shoes)

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	26 days/year
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

ConsExpo 4.1

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC15: Spray cleaners	---	Consumer - inhalative, long-term - local and systemic	0,0003mg/m ³	0,0002
PC31: Polishes, spray	---	Consumer - inhalative, short-term - local and systemic	0,226mg/m ³	0,151

Dermal exposure is not considered to be relevant.

PA102749_001

49/60

EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 17: Use in/as air care products (spray products)

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC3: Air care products
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC3

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 1% - 5%	
	Physical Form (at time of use)	solid, liquid, (non viscous)	
Frequency and duration of use	Spray Duration	15 min	
	Exposure duration	15 min	
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.		
	Room size	30 m3	
	Assumes activities are at ambient temperature.		

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

Advanced REACH Tool (ART model)

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC3	75th percentile value	Consumer - inhalative, short-term - local and systemic	0,15mg/m ³	0,1
PC3	90th percentile value	Consumer - inhalative,	0,085mg/m ³	0,057

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

	long-term - local and systemic	
--	--------------------------------	--

Dermal exposure is not considered to be relevant.

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

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.
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
For scaling see: <http://www.advancedreachtool.com>
Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 18: Use in textile industry

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC34: Cleaning and washing/floor, carpet and furniture products/furniture leather spray

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	1 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor use.	
	Room size	58 m3
	Outdoor use.	

2.3 Contributing scenario controlling consumer exposure for: PC34: Cleaning and washing/laundry products/detergent powder

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	365 days/year
	Exposure duration	10 min
Other given operational conditions affecting consumers	Indoor use.	
	Room size	58 m3

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

exposure

Outdoor use.

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

ConsExpo 4.1

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC34: Cleaning and washing/floor, carpet and furniture products/furniture leather spray	---	Consumer - inhalative, short-term - local and systemic	0,226mg/m ³	0,151

Dermal exposure is not considered to be relevant.

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

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. Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp> Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 19: Use in/as photochemicals

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC30: Photo-chemicals
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC30

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product: 1% - 5%
	Physical Form (at time of use)	solid, liquid, (non viscous)
Frequency and duration of use	Exposure duration	360 min
Other given operational conditions affecting consumers exposure	Indoor use.	
	Assumes activities are at ambient temperature.	

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

Advanced REACH Tool (ART model)

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC30	75th percentile value	Consumer - inhalative, short-term - local and systemic	0,0026mg/m ³	0,002
PC30	90th percentile value	Consumer - inhalative, long-term - local and systemic	0,0015mg/m ³	0,001

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

Dermal exposure is not considered to be relevant.

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

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.

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

For scaling see: <http://www.advancedreachtool.com>

Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 20: Use in biocidal products

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC8: Biocidal products
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC8: Biocidal products, spray - Mixing and loading

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	granular-like, liquid
Frequency and duration of use	Frequency of use	9 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	20 m3

2.3 Contributing scenario controlling consumer exposure for: PC8: Biocidal products, spray - Electrical evaporator, insect repellents

Product characteristics	Concentration of the Substance in Mixture/Article	Concentration of substance in product : 0% - 5%
	Physical Form (at time of use)	solid, liquid
Frequency and duration of use	Frequency of use	150 days/year
	Exposure duration	240 min
Other given operational conditions affecting consumers exposure	Indoor/Outdoor use.	
	Room size	16 m3

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

3. Exposure estimation and reference to its source

Environment

No exposure assessment presented for the environment.

Consumers

ConsExpo 4.1

Contributing Scenario	Specific conditions	Exposure routes	Level of Exposure	RCR
PC8: Biocidal products, spray - Mixing and loading	---	Consumer - inhalative, short-term - local and systemic	0,658mg/m ³	0,439
PC8: Biocidal products, spray - Electrical evaporator, insect repellents	---	Consumer oral, long-term - local and systemic	0,86mg/kg bw/day	0,344
PC8: Biocidal products, spray - Electrical evaporator, insect repellents	---	Consumer - inhalative, long-term - local and systemic	0,184mg/m ³	0,122

Dermal exposure is not considered to be relevant.

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

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.
 Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.
 Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
 For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>
 Only properly trained persons shall make use of scaling methods while checking whether the OC and RMM are within the boundaries set by the ES

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

1. Short title of Exposure Scenario 21: Other consumer uses

Main User Groups	SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	PC12: Fertilizers PC18: Ink and toners PC20: Products such as ph-regulators, flocculants, precipitants, neutralization agents PC23: Leather tanning, dye, finishing, impregnation and care products PC24: Lubricants, greases, release products PC26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids PC28: Perfumes, fragrances PC29: Pharmaceuticals PC32: Polymer preparations and compounds PC36: Water softeners PC37: Water treatment chemicals PC39: Cosmetics, personal care products
Environmental Release Categories	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems ERC8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b

As no environmental hazard was identified no environmental related exposure assessment and risk characterization was performed.

2.2 Contributing scenario controlling consumer exposure for: PC12, PC18, PC20, PC23, PC24, PC26, PC28, PC29, PC32, PC36, PC37, PC39

Product characteristics	Physical Form (at time of use)	solid, liquid, spray aerosol
	Frequency and duration of use	Frequency of use: 365 days/year
Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)	Consumer Measures	Avoid contact with eyes.
		Ensure spraying away from persons.

3. Exposure estimation and reference to its source

Environment

PA102749_001

59/60

EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

EDTA Tetrasodium salt

Version 2.0

Print Date 07.08.2013

Revision Date 07.08.2013

No exposure assessment presented for the environment.

Consumers

No consumer exposure anticipated.

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

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.

DISTRIBUTOR COMPANY INFORMATION			
name	BRENNTAG N.V.	BRENNTAG NEDERLAND B.V.	BRENNTAG SOUTH AFRICA (PTY) LTD
Address	Nijverheidslaan 38 8540 Deerlijk	Donker Duyvisweg 44 3316 BM Dordrecht	247 15 th Road, Randjespark, Midrand, 1685
Country	Belgium	The Netherlands	South Africa
Phone number	+32 (0)56 77 69 44	+31 (0)78 65 44 944	+27 (0)10 0209100
Website	www.brenntag.com	www.brenntag.com	www.brenntag.com
E-mail	Info.BE@brenntag.com	Info.NL@brenntag.com	Info.ZA@brenntag.com
Activities	Distribution and export of chemicals and ingredients		
VAT number	BE0405317567	NL001375945B01	4520105356
Emergency number (24/365)	+32 (0)56 77 69 44	+31 (0)78 65 44 944	+27 (0)10 0209100
Management systems: certifications	ISO9001, ISO22000, FSSC22000, GMP+Feed, ESAD, RSPO, Rainforest Alliance	ISO 9001, ISO 14001, ISO 22000, ISO22716, FSSC 22000, ISO45001, GMP+ Feed, ESAD, AEO, SKAL, RSPO, Rainforest Alliance	ISO9001, ISO45001, ISO14001, FSSC22000, Certificate of acceptability for Food Premises R638, Ecovadis Stustainability Rating (Platinum), SABS 1827, SABS 1853, B-BBEE, Rainforest Alliance, Sedex

Information in this publication is believed to be accurate and is given in good faith, but it is for the customer to satisfy itself of the suitability for its own particular purpose.
No representation, warranty or guarantee is made as to its accuracy, reliability or completeness.

