SAFETY DATA SHEET

novatio

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

NAE-1500 B

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

1.1. Product identifier

Product name: NAE-1500 BRegistration number REACH: Not applicable (mixture)Product type REACH: Mixture

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

1.2.1 Relevant identified uses

Adhesive

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ➡ +32 14 85 97 38 info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) : +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as danger	assified as dangerous according to the criteria of Regulation (EC) No 1272/2008			
Class	Category	Hazard statements		
Skin Sens.	category 1	H317: May cause an allergic skin reaction.		
Skin Corr.	category 1B	H314: Causes severe skin burns and eye damage.		
Eye Dam.	category 1	H318: Causes serious eye damage.		
Aquatic Acute	category 1	H400: Very toxic to aquatic life.		
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.		

2.2. Label elements



Contains: fatty acids C18 unsaturated, reaction products with tetraethylenepentamine; 3,3'-oxybis(ethyleneoxy)bis(propylamine); tetraethylenepentamine.

Signal v	word	Danger
H-state	ements	
H	317	May cause an allergic skin reaction.
H	314	Causes severe skin burns and eye damage.
H	410	Very toxic to aquatic life with long lasting effects.
P-state	ments	
P2	280	Wear protective gloves, protective clothing and eye protection/face protection.
P2	260	Do not breathe dust.
PS	304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 1

Revision number: 0001

Publication date: 2021-11-26

Date of revision: 2022-03-14

878-16239-032-en

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P303 + P361 + P353 P305 + P351 + P338

Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3. Other hazards

P310

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
calcium carbonate	471-34-1 207-439-9	25% <c<50%< td=""><td></td><td>(2)</td><td>Constituent</td><td></td></c<50%<>		(2)	Constituent	
9,12-octadecadienoic acid (9Z,12Z)-, dimer, polymer with 3,3-(oxybis(2,1- ethanediyloxy))bis(1-propanamine)	68541-13-9	25% <c<50%< td=""><td>Eye Irrit. 2; H319</td><td>(1)</td><td>Constituent</td><td></td></c<50%<>	Eye Irrit. 2; H319	(1)	Constituent	
fatty acids C18 unsaturated, reaction products with tetraethylenepentamine	1226892-45-0	10% <c<25%< td=""><td>Skin Sens. 1A; H317 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td><td>(1)</td><td>Constituent</td><td>M: 10 (Acute, ECHA (registration dossier)) M: 1 (Chronic, ECHA (registration dossier))</td></c<25%<>	Skin Sens. 1A; H317 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)	Constituent	M: 10 (Acute, ECHA (registration dossier)) M: 1 (Chronic, ECHA (registration dossier))
3,3'-oxybis(ethyleneoxy)bis(propylamine) 01-2119963377-26	4246-51-9 224-207-2	1% <c<10%< td=""><td>Skin Sens. 1; H317 Skin Corr. 1B; H314 Eye Dam. 1; H318</td><td>(1)(10)</td><td>Constituent</td><td></td></c<10%<>	Skin Sens. 1; H317 Skin Corr. 1B; H314 Eye Dam. 1; H318	(1)(10)	Constituent	
tetraethylenepentamine	112-57-2 203-986-2	1% <c<10%< td=""><td>Skin Sens. 1; H317 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td><td></td></c<10%<>	Skin Sens. 1; H317 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 2; H411	(1)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. Immediately consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

After ingestion:

Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract. After skin contact: Caustic burns/corrosion of the skin. After eye contact: Corrosion of the eye tissue.

After ingestion:

Reason for revision: 1

Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

4.2.2 Delayed symptoms No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (not alcohol-resistant).

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Safety glasses (EN 166). Corrosion-proof suit (EN 14605). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Safety glasses (EN 166). Corrosion-proof suit (EN 14605).

See section 8.2

6.2. Environmental precautions

Contain released product. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Solid spill: cover with absorbent material. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

- 7.2.1 Safe storage requirements:
- Meet the legal requirements.

7.2.2 Keep away from: Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

Reason for revision: 1

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values If limit values are applicable and available these will be listed below.

alcium (carbonate de)		Time-weighted average	e exposure limit 8 h	10 mg/m ³
rance				
Calcium (carbonate de)		Time-weighted averag réglementaire indicati	e exposure limit 8 h (VL: Valeur ve)	non 10 mg/m³
к				
Calcium carbonate inhalable o	dust	Time-weighted averag (EH40/2005))	e exposure limit 8 h (Workplace	exposure limit 10 mg/m ³
Calcium carbonate respirable	dust	Time-weighted averag (EH40/2005))	e exposure limit 8 h (Workplace	exposure limit 4 mg/m ³
b) National biological limit value f limit values are applicable and a	<u>s</u> available these will b	e listed below.		
Sampling methods		— .	.	
roduct name		lest	Number	
Applicable limit values when u f limit values are applicable a I Threshold values DNEL/DMEL - Workers alcium carbonate	sing the substance of and available these	or mixture as intended e will be listed below.		
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term loca	l effects inhalation	6.36 mg/m ³	
atty acids C18 unsaturated, reac	tion products with te	traethylenepentamine		
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term system	emic effects inhalation	9.87 mg/m³	
	Long-term system	emic effects dermal	1.4 mg/kg bw/day	
3'-oxybis(ethyleneoxy)bis(prop	<u>ylamine)</u>			
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term system	emic effects inhalation	59 mg/m³	
	Acute systemic	effects inhalation	176 mg/m ³	
	Long-term loca	l effects inhalation	1 mg/m³	
	Acute local effe	ects inhalation	13 mg/m³	
	Long-term system	emic effects dermal	8.3 mg/kg bw/day	
<u> DNEL/DMEL - General population</u> alcium carbonate	<u>n</u>			
Effect level (DNEL/DMEL)	Type		Value	Remark
DNEL	Long-term loca	l effects inhalation	1.06 mg/m ³	
	Long-term syste	emic effects oral	6.1 mg/kg bw/day	
	Acute systemic	effects oral	6.1 mg/kg bw/day	
atty acids C18 unsaturated, reac	tion products with te	traethylenepentamine		
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term system	emic effects inhalation	1.74 mg/m ³	
	Long-term system	emic effects dermal	0.5 mg/kg bw/day	
	Long-term syste	emic effects oral	0.5 mg/kg bw/day	
5,3 -oxybis(ethyleneoxy)bis(propylene	<u>ylamine)</u>			
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term system	emic effects inhalation	17 mg/m ³	
	Acute systemic	effects inhalation	52 mg/m³	
	Long-term loca	I effects inhalation	0.5 mg/m ³	
	Acute local effe	ects inhalation	6.5 mg/m ³	
	Long-term syste	emic effects dermal	5 mg/kg bw/day	
	Long-term syste	emic effects oral	la mg/kg pw/day	
alcium carbonate				
calcium carbonate		Value	Remark	

fatty acids C18 unsaturated, reaction product	s with tetraethylenepentamine		
Compartments	Value	Remark	
Fresh water	30.7 μg/l		
Marine water	3.07 μg/l		
Fresh water (intermittent releases)	6.12 μg/l		
STP	2.3 mg/l		
Fresh water sediment	119.8 mg/kg sediment dw		
Marine water sediment	11.98 mg/kg sediment dw		
Soil	9.44 mg/kg soil dw		
Oral	20 mg/kg food		
3,3'-oxybis(ethyleneoxy)bis(propylamine)			
Compartments	Value	Remark	
Fresh water	0.22 mg/l		
Marine water	0.022 mg/l		
Fresh water (intermittent releases)	2.2 mg/l		
STP	500 mg/l		
Fresh water sediment	1.1 mg/kg sediment dw		
Marine water sediment	0.11 mg/kg sediment dw		
Soil	0.091 mg/kg soil dw		

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions. Dust production: dust mask with filter type P3.

b) Hand protection:

Protective gloves against chemicals (EN 374).

c) Eye protection:

Safety glasses (EN 166).

d) Skin protection:

Corrosion-proof clothing (EN 14605).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Paste
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Beige
Particle size	Not applicable
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	> 300 °C
Relative vapour density	Not applicable
Vapour pressure	No data available in the literature
Solubility	Water ; insoluble
Relative density	1.19 ; 20 °C
Absolute density	1190 kg/m³ ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	> 93 °C
pН	Not applicable (non-soluble in water)

9.2. Other information

No data available

Reason for revision: 1

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

NAE-1500 B

No (test)data on the mixture available

Judgement is based on the relevant ingredients

calcium carbonate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 420	> 2000 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 3 mg/l air	4 h	Rat (male / female)	Experimental value	

fatty acids C18 unsaturated, reaction products with tetraethylenepentamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (female)	Experimental value	
Dermal						Data waiving	
Inhalation						Data waiving	

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	3160 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2150 mg/kg	24 h	Rat (male / female)	Experimental value	
Inhalation						Data waiving	

tetraethylenepentamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral			category 4			Annex VI	
Dermal			category 4			Annex VI	
Inhalation	LC50		> 9.9 mg/l air	8 h	Rat (male)	Literature study	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

NAE-1500 B

No (test)data on the mixture available Classification is based on the relevant ingredients

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Еуе	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treat
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Not applicable (in vitro test)	Not irritating	OECD 439	15 minutes		Reconstructed human epidermis	Experimental value	
12-octadecadienoic a	acid (9Z,12Z)-, dir	ner, polymer with 3	,3-(oxybis(2,1-ethane	diyloxy))bis(1-propana	amine)		
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Literature study	
ty acids C18 unsatu	rated, reaction pr	oducts with tetraet	hylenepentamine				
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Eye	Serious eye damage; category 1					Literature study	
Skin	Corrosive	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
- B'-oxvbis(ethvleneox	i v)bis(propylamin	e)				1	
Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Serious eye damage; category 1					Data waiving	
Skin	Corrosive	BASF test	1 h	24; 48; 72 hours	Rabbit	Experimental value	
Data waiving for e traethylenepentami	ye corrosion base	d on corrosive prop	erties				
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	Other			Rabbit	Experimental value	
Skin	Corrosive	Other	4 h		Rabbit	Experimental value	
clusion							
uses severe skin bur	ns and eye dama	ge.					
ot classified as irritat	ing to the respira	tory system					
tory or skin sensitisa	ation						
<u>1500 B</u>							
o (test)data on the n	nixture available						
assification is based Icium carbonate	on the relevant ir	gredients					-
Route of exposure	Result	Method	Exposure time	Observation time	Species N	/alue determination	Remark
				point			

Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value	
tty acids C18 unsatu	irated, reaction pr	oducts with tetraethyl	<u>enepentamine</u>				
Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
				point			
Skin	Sensitizing	OECD 406			Guinea pig (male / female)	Experimental value	
Inhalation						Data waiving	
3'-oxybis(ethyleneo	xy)bis(propylamine	e)					
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing					QSAR	
traethylenepentam	ine						
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing				Guinea pig	Experimental value	
	Skin Skin Skin Skin Skin Stin Skin Skin Skin Coute of exposure Skin Skin Skin Skin	Skin Not sensitizing ity acids C18 unsaturated, reaction pr Route of exposure Result Skin Sensitizing Inhalation 3'-oxybis(ethyleneoxy)bis(propylaming Route of exposure Result Skin Sensitizing Skin Sensitizing Goute of exposure Result Skin Sensitizing Route of exposure Result Skin Sensitizing Skin Sensitizing Skin Sensitizing	Not sensitizing OECD 429 Ity acids C18 unsaturated, reaction products with tetraethyl Route of exposure Result Method Skin Sensitizing OECD 406 Inhalation 3'-oxybis(ethyleneoxy)bis(propylamine) Route of exposure Result Method Skin Sensitizing Skin Sensitizing Skin Sensitizing Route of exposure Result Method Skin Sensitizing Route of exposure Result Method Skin Sensitizing Skin Sensitizing	Not sensitizing OECD 429 Ity acids C18 unsaturated, reaction products with tetraethylenepentamine Route of exposure Route of exposure Result Method Exposure time Skin Sensitizing OECD 406 Inhalation 3'-oxybis(ethyleneoxy)bis(propylamine) Exposure time Route of exposure Result Method Exposure time Skin Sensitizing Method Exposure time Skin Sensitizing Method Exposure time Skin Sensitizing Exposure time Status Route of exposure Result Method Exposure time Skin Sensitizing Exposure time Status Skin Sensitizing Exposure time	Skin Not sensitizing OECD 429 Route of exposure Result Method Exposure time Observation time point Skin Sensitizing OECD 406 Image: Composition of the point Observation time point Inhalation Image: Composition of the point Image: Composition of the point Image: Composition of the point Route of exposure Result Method Exposure time Observation time point 3'-oxybis(ethyleneoxy)bis(propylamine) Image: Composition of the point Image: Composition of the point Image: Composition of the point Skin Sensitizing Method Exposure time Observation time point Skin Sensitizing Image: Composition of the point Image: Composition of the point Skin Sensitizing Image: Composition of the point Image: Composition of the point Skin Sensitizing Image: Composition of the point Image: Composition of the point Skin Sensitizing Image: Composition of the point Image: Composition of the point Skin Sensitizing Image: Composition of the point Image: Composition of the point	Skin Not sensitizing OECD 429 Mouse (female) tty acids C18 unsaturated, reaction products with tetraethylenepentamine Mouse (female) Route of exposure Result Method Exposure time Observation time point Species Skin Sensitizing OECD 406 Image: Comparison of the comparison of th	SkinNot sensitizingOECD 429Mouse (female)Experimental valueRoute of exposureResultMethodExposure timeObservation time pointSpeciesValue determinationSkinSensitizingOECD 406Image: Composition of the sensitizingOECD 406Guinea pig (male) / female)Experimental valueInhalationImage: Composition of the sensitizingOECD 406Image: Composition of the sensitizingData waivingSkinSensitizingOECD 406Image: Composition of the sensitizingData waivingData waivingSoute of exposureResultMethodExposure time pointObservation time pointSpeciesValue determinationSkinSensitizingImage: Composition of the sensitizingMethodExposure time pointObservation time pointSpeciesValue determinationSkinSensitizingImage: Compositien of the sensitizingMethodExposure timeObservation time pointSpeciesValue determinationSkinSensitizingImage: Compositien of the sensitizingMethodExposure timeObservation time pointSpeciesValue determinationSkinSensitizingMethodExposure timeObservation time pointSpeciesValue determinationSkinSensitizingMethodExposure timeObservation time pointSpeciesValue determinationSkinSensitizingSensitizingImage: Composition of the sensitizingSpeciesValue determination

Conclusion

May cause an allergic skin reaction.

Not classified as sensitizing for inhalation

Specific target organ toxicity

Reason for revision: 1

Publication date: 2021-11-26 Date of revision: 2022-03-14

Revision number: 0001

NAE-1500 B

No (test)data on the mixture available

Judgement is based on the relevant ingredients calcium carbonate

	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (stomach tube)	NOAEL	OECD 422	1000 mg/kg bw/day		No effect	48 day(s)	Rat (male / female)	Experimental value
	Inhalation (dust)	NOAEC local effects	OECD 413	≥ 0.212 mg/m ³ air		No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
	Inhalation (dust)	NOEC	OECD 413	0.399 mg/l		No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
att	<u>y acids C18 unsatura</u>	ted, reaction	n products with t	etraethyleneper	<u>ntamine</u>				
	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (stomach tube)	NOAEL	OECD 422	≥ 300 mg/kg bw/day		No effect	28 day(s) - 48 day(s)	Rat (male / female)	Experimental value
	Dermal								Data waiving
Ī	Inhalation								Data waiving
3,3'	-oxybis(ethyleneoxy)	bis(propylar	nine)				•		•
	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (stomach	NOAEL	OECD 422	600 mg/kg		No effect	59 day(s) - 62 day(s)	Rat (male /	Experimental

Oral (stomach tube)	NOAEL systemic effects	OECD 422	600 mg/kg bw/day	No effect	59 day(s) - 62 day(s)	Rat (male / female)	Experimental value
Oral (stomach tube)	NOAEL local effects	OECD 422	100 mg/kg bw/day	Histopatholog Y	62 day(s)	Rat (female)	Experimental value
Oral (stomach tube)	NOAEL local effects	OECD 422	< 100 mg/kg bw/day	Histopatholog Y	59 day(s)	Rat (male)	Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

NAE-1500 B

No (test)data on the mixture available

Judgement is based on the relevant ingredients

calcium carbonate

	Result	Method	Test substrate	Effect	Value determination	Remark
	Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
	Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes	No effect	Experimental value	
<u>fatt</u>	y acids C18 unsaturated, re	action products with tetraeth	ylenepentamine			
	Result	Method	Test substrate	Effect	Value determination	Remark
	Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
	Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes	No effect	Experimental value	
<u>3,3</u>	-oxybis(ethyleneoxy)bis(pro- pro- pro- pro- pro- pro- pro- pro-	opylamine)				
	Result	Method	Test substrate	Effect	Value determination	Remark
	Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
	Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value	

Reason for revision: 1

Publication date: 2021-11-26

Mutagenicity (in vivo)

NAE-1500 B

No (test)data on the mixture available

Judgement is based on the relevant ingredients tetr . ethylenenentamine

teti	aethylenepentannie					
	Result	Method	Exposure time	Test substrate	Organ	Value determination
	Negative			Mouse (male / female)		Literature study

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NAE-1500 B

No (test)data on the mixture available

Judgement is based on the relevant ingredients

са	CI	um	car	bonate	2
					_

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Unknown								Data waiving

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

NAE-1500 B

No (test)data on the mixture available Judgement is based on the relevant ingredients calcium carbonate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (diet))	NOAEC	Equivalent to OECD 414	1963 mg/kg bw/day - 2188 mg/kg bw/day	62 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (diet))	NOAEC	Equivalent to OECD 414	1963 mg/kg bw/day - 2188 mg/kg bw/day	62 day(s)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOEL	OECD 422	1000 mg/kg bw/day	48 day(s)	Rat (male / female)	No effect		Experimental value

f

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	≥ 150 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	50 mg/kg bw/day - 150 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	≥ 300 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

3,3'-oxybis(ethyleneoxy)bis(propylamine)

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
								determination
Developmental toxicity	NOAEL (P)	OECD 422	600 mg/kg bw/day		Rat	No effect		Experimental value
Effects on fertility	NOAEL (P)	OECD 422	600 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

NAE-1500 B

No (test)data on the mixture available

Chronic effects from short and long-term exposure

NAE-1500 B

Skin rash/inflammation.

Reason for revision: 1

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

NAE-1500 B

No (test)data on the mixture available

Classification is based on the relevant ingredients

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 %	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	> 100 %	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	50 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	Dose level		60 mg/l	42 day(s)	Oncorhynchus mykiss	Flow- through system	Fresh water	Experimental value; Calcium ion
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro- organisms	EC50	OECD 209	> 1000 mg/l	3 h	Activated sludge			Literature study
atty acids C18 unsaturated, rea	ction products v	with tetraethy	lenepentamine					
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	0.19 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity crustacea	EC50	OECD 202	0.18 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	0.638 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
	EC10	OECD 201	0.395 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Acute toxicity other aquatic organisms	EC50	OECD 202	0.18 mg/l	48 h		Static system	Fresh water	Experimental value
Long-term toxicity fish								Data waiving

Classification of this substance is debatable as it does not correspond to the conclusion from the test M-factor of this substance is debatable as it does not correspond to the conclusion from the test

OECD 211

320 μg/l

NOEC

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Long-term toxicity aquatic

crustacea

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	DIN 38412- 15	215 mg/l - 464 mg/l	96 h	Leuciscus idus	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	218.16 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	EC50	DIN 38412-9	> 500 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
	EC10	DIN 38412-9	5.4 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity fish	NOEC		> 1 mg/l		Leuciscus idus		Fresh water	Calculated value
Long-term toxicity aquatic crustacea	NOEC		> 1 mg/l		Daphnia magna		Fresh water	Calculated value

21 day(s)

Daphnia magna

Reason for revision: 1

Publication date: 2021-11-26 Date of revision: 2022-03-14

Semi-static Fresh water

system

Revision number: 0001

BIG number: 67737

Experimental value;

Nominal concentration

tetraethylenepentamine								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	420 mg/l	96 h	Poecilia reticulata	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	EU Method C.2	24.1 mg/l	48 h	Daphnia magna	Static system		Experimental value; GLP
Toxicity algae and other aquatic plants	NOEC	OECD 201	0.5 mg/l	72 h	Selenastrum capricornutum			Experimental value; Growth rate
	ErC50	OECD 201	6.8 mg/l	72 h	Selenastrum capricornutum			Experimental value
Toxicity aquatic micro- organisms	EC50	OECD 209	1600 mg/l	1 h	Activated sludge			Experimental value; GLP
	EC10		186 mg/l	17 h	Pseudomonas putida			Experimental value; GLP

Conclusion

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

fatty acids C18 unsaturated, reaction products with tetraethylenepentamine

Biodegradation water Duration Value determination DECD 301D 24 %; Oxygen consumption 28 day(s) Read-across 3.3 - oxybis(ethyleneoxy)bis(propylamine) Biodegradation water Fead-across

	Method	Value	Duration	Value determination
	OECD 301B	0 %	28 day(s)	Experimental value
tet	raethylenepentamine			

Biodegradation water

Method	Value	Duration	Value determination
OECD 301A	< 10 %; GLP	28 day(s)	Experimental value

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

NAE-1500 B

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

calcium carbonate

Log Kow

Method		Remark	Value	Т	emperature	Value determination
		Not quantifiable				
,12-octadecadiend	oic acid (9Z,12Z)	-, dimer, polymer with	3,3-(oxybis(2,1-ethaned	diyloxy))bis(1-pro	panamine)	•
Log Kow						
Method		Remark	Value	т	emperature	Value determination
		No data available				
atty acids C18 unsa	aturated, reaction	on products with tetrae	thylenepentamine			•
BCF fishes						
Parameter	Method	Value	Duration	Species		Value determination
						Data waiving
Log Kow						·
Method		Remark	Value	Т	emperature	Value determination
OECD 123			2.2	2	5.2 °C	Read-across
,3'-oxybis(ethylen	eoxy)bis(propyl	amine <u>)</u>				
BCF fishes						
Parameter	Method	Value	Duration	Species		Value determination
BCF	BCFBAF v3.	.01 0.89 - 3.16		Pisces		Estimated value
Log Kow						
Method		Remark	Value	Т	emperature	Value determination
			1 25	2	E °C	Exportmontal value

tetraethylenepentamine

BCF other aquatic organisms									
Parameter	Method		Value	Duration	Species			Value determination	
BCF	BCFBAF v3	.01	3.162 l/kg; Fresh weight					Estimated value	
Log Kow	Log Kow								
Method		Remark		Value		Temperature		Value determination	
KOWWIN				-3.16				Estimated value	

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.4. Mobility in soil

fatty acids C18 unsaturated, reaction products with tetraethylenepentamine

•							
	Parameter	Method	Value	Value determination			
	Кос		944980	Literature study			
	log Koc		5.98	Calculated value			

3,3'-oxybis(ethyleneoxy)bis(propylamine)

(log) Koc

(log) Koc

	Parameter	Method	Value	Value determination
	Кос	SRC PCKOCWIN v2.0	0.83	Estimated value
teti	raethylenepentamine			

(log) Koc

Parameter	Method	Value	Value determination
log Koc		3.04	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction	Fraction soil	Fraction water	Value determination
			sealment			
Fugacity Model	7.45E-16 %		0.155 %	81.8 %	18 %	Calculated value
Level III						

Conclusion

Contains component(s) with potential for mobility in the soil Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

NAE-1500 B

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Groundwater

Groundwater pollutant

calcium carbonate

Water ecotoxicity pH

pH shift

3,3'-oxybis(ethyleneoxy)bis(propylamine) Water ecotoxicity pH pH shift

<u>tetraethylenepentamine</u> Water ecotoxicity pH pH shift

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste European Union

Reason for revision: 1

Publication date: 2021-11-26 Date of revision: 2022-03-14

Revision number: 0001

BIG number: 67737

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14. <u>1. UN number</u>							
UN number	1760						
14.2. UN proper shipping name							
Proper shipping name	corrosive liquid, n.o.s. (tetraethylenepentamine)						
14.3. Transport hazard class(es)							
Hazard identification number	80						
Class	8						
Classification code	C9						
14. <u>4</u> . Packing group							
Packing group	II						
Labels	8						
14.5. Environmental hazards							
Environmentally hazardous substance mark	yes						
14.6. Special precautions for user							
Special provisions	274						
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)						

Rail (RID)

14. <u>1</u> . UN number						
UN number	1760					
14.2. UN proper shipping name						
Proper shipping name	corrosive liquid, n.o.s. (tetraethylenepentamine)					
14.3. Transport hazard class(es)						
Hazard identification number	80					
Class	8					
Classification code	С9					
14. <u>4. Packing group</u>						
Packing group	II					
Labels	8					
14. <u>5. Environmental hazards</u>						
Environmentally hazardous substance mark	yes					
14.6. Special precautions for user						
Special provisions	274					
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)					

Inland waterways (ADN)

I4. <u>1. UN number</u>	
UN number	1760
14.2. UN proper shipping name	
Proper shipping name	corrosive liquid, n.o.s. (tetraethylenepentamine)
L4.3. Transport hazard class(es)	
Class	8
Classification code	C9
14.4. Packing group	
Packing group	II
Labels	8
4. <u>5. Environmental hazards</u>	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274

Reason for revision: 1

	Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
ea (I	MDG/IMSBC)	

Se

14. <u>1</u> . UN number				
UN number	1760			
14.2. UN proper shipping name				
Proper shipping name	corrosive liquid, n.o.s. (tetraethylenepentamine)			
14.3. Transport hazard class(es)				
Class	8			
14.4. Packing group				
Packing group	II			
Labels	8			
14.5. Environmental hazards				
Marine pollutant	Р			
Environmentally hazardous substance mark	yes			
14.6. Special precautions for user				
Special provisions	274			
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for			
	liquids. A package shall not weigh more than 30 kg. (gross mass)			
14.7. Maritime transport in bulk according to IMO instruments				
Annex II of MARPOL 73/78	Not applicable, based on available data			

Air (ICAO-TI/IATA-DGR)

14. <u>1. UN number</u>	
UN number	1760
14.2. UN proper shipping name	
Proper shipping name	corrosive liquid, n.o.s. (tetraethylenepentamine)
14.3. Transport hazard class(es)	
Class	8
14.4. Packing group	
Packing group	II
Labels	8
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	A3
Special provisions	A803
Passenger and cargo transport	
Limited quantities: maximum net quantity per packaging	0.5 L

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances				
Substance or category	Low tier (tonnes)	Top tier (tonnes)	Group	For this substance or mixture the summation rule has to be applied for:
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200	None	Eco-toxicity

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
 · 3,3'-oxybis(ethyleneoxy)bis(propylamine) · tetraethylenepentamine 	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on	 Shall not be used in: ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, tricks and jokes, games for one or more participants, or any article intended to be used as such, even with ornamental aspects, Articles not complying with paragraph 1 shall not be placed on the market. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: can be used as fuel in decorative oil lamps for supply to the general public, and,

Reason for revision: 1

	NAE-1	500 B	
	development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	 present an aspiration hazard and are labelled with H304, Decorative oil lamps for supply to the general public shall not be placed on the unless they conform to the European Standard on Decorative oil lamps (EN 1405 by the European Committee for Standardisation (CEN). Without prejudice to the implementation of other Community provisions relat classification, packaging and labelling of dangerous substances and mixtures, sugnature, before the placing on the market, that the following requirements are ma a) lamp oils, labelled with H304, intended for supply to the general public are vis and indelibly marked as follows: "Keep lamps filled with this liquid out of the reachidren"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter multife threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are used are packaged in black opaque containers not exceeding 1 litre by 1 December 2000 	e market 59) adopted ting to the ppliers shall net: sibly, legibly ach of ie wick of ic are legibly nay lead to eral public 010.
etraethylenepentamine	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin corrosive category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU	1) 2020/208:
<u>National legislation Belgium</u> <u>NAE-1500 B</u> No data available National legislation The Netherla	ands		
NAE-1500 B Waterbezwaarliikbeid	A (1): Algemene Beoordelingsmethodie	k (ARM)	
National legislation France NAE-1500 B No data available National legislation Germany NAE-1500 B			
Lagerklasse (TRGS510) WGK	8 A: Brennbare ätzende Gefahrstoffe 2: Verordnung über Anlagen zum Umga	ng mit wassergefährdenden Stoffen (AwSV) - 18 April 2017	
<u>calcium carbonate</u>			
TA-Luft <u>9,12-oc</u> tadecadienoic acid (92	5.2.1 2,12Z)-, dimer, polymer with 3,3-(oxybis(2.1-e	thanediyloxy))bis(1-propanamine)	
TA-Luft	5.2.1		
fatty acids C18 unsaturated, r	eaction products with tetraethylenepentami	ne	
TA-Luft 3.3'-oxyhis(ethyleneoxy)his(n	IS.2.5/I ropylamine)		
TA-Luft	5.2.5/1		
tetraethylenepentamine	·		
TA-Luft	5.2.5/I		
National legislation Austria NAE-1500 B			
on for revision: 1		Publication date: 2021-11-26 Date of revision: 2022-03-14	
on number: 0001		BIG number: 67737	15 / 16

No data available

National legislation United Kingdom

NAE-1500 B No data available

Other relevant data

<u>NAE-1500 B</u>

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

Reason for revision: 1