SAFETY DATA SHEET

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



X-TACK

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

1.1. Product identifier

Product name: X-TACKRegistration number REACH: Not appProduct type REACH: Mixture

: Not applicable (mixture) : 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

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

TEC7* Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ш +32 14 85 97 38 info@tec7.be *TEC7 is a registered trademark of Novatech International N.V.

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

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 Supplemental information

EUH208

Contains: N-(3-(trimethoxysilyl)propyl)ethylenediamine; trimethoxyvinylsilane. May produce an allergic reaction.

2.3. Other hazards

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
N-(3-(trimethoxysilyl)propyl) ethylenediamine 01-2119970215-39	1760-24-3 217-164-6		Skin Sens. 1B; H317 Acute Tox. 4; H332 STOT RE 2; H373 Eye Dam. 1; H318	(1)(10)	Constituent	
Created by: Brandweerinformatiecentrum Technische Schoolstraat 43 A, B-2440 Gee http://www.big.be © BIG vzw		tion date: 2005-(revision: 2022-0		16433-033-en		
Reason for revision: 2, 3 Revision number: 0900		BIG nu	nber: 42121		1/12	

		Χ-	TACK			
imethoxyvinylsilane	2768-02-7 220-449-8	0.1% <c<1%< th=""><th>Flam. Liq. 3; H226 Skin Sens. 1B; H317</th><th>(1)(6)(10)</th><th>Constituent</th><th></th></c<1%<>	Flam. Liq. 3; H226 Skin Sens. 1B; H317	(1)(6)(10)	Constituent	
 (1) For H- and EUH-statements i (6) Enumerated in Annex VI of R (10) Subject to restrictions of An 	egulation (EC) No. 1272/200		fication has been adapted a	ter evaluation of av	ailable test data	
ECTION 4: First aid m	neasures					
4.1. Description of first ai	d measures					
number 112. Treat sym symptoms. After inhalation: Remove victim into fre After skin contact: If possible, wipe up/dr doctor/medical service After eye contact: Rinse immediately witi doctor/medical service After ingestion:	nptoms starting with mos sh air. In case of respirat y remove chemical. Then 2. h (lukewarm) water. Rem 2. er. If you feel unwell, con	t life-threaten ory problems, rinse/shower ove contact le sult a doctor/r	vital functions. In case of i ing injuries and disorders consult a doctor/medical immediately with (lukewa enses, if present and easy nedical service. Do not w delayed	. Keep victim unde service. arm) water. If irrita to do. Continue ri	er observation, pos ation persists, cons nsing. If irritation p	sibility of delay sult a persists, consul
 4.2.2 Delayed symptoms No effects known. 4.3. Indication of any imn If applicable and available 	nediate medical atten able it will be listed belo	-	cial treatment needed			
No effects known. 4.3. Indication of any imn If applicable and availa	able it will be listed belo	-	cial treatment needed			
No effects known. 4.3. Indication of any imn If applicable and availa ECTION 5: Firefightin 5.1. Extinguishing media 5.1.1 Suitable extinguishing Small fire: Quick-acting A Major fire: Water, Clas 5.1.2 Unsuitable extinguishi	able it will be listed below 19 Measures media: BC powder extinguisher, Class s A foam. ng media:	w. ass A foam extir	guisher, Water (quick-acting			
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No effects known. 4.3. Indication of any imm If applicable and availa ECTION 5: Firefightin 5.1. Extinguishing media 5.1.1 Suitable extinguishing Small fire: Quick-acting A Major fire: Water, Clas 5.1.2 Unsuitable extinguishing Small fire: Quick-acting B 5.2. Special hazards arisim Upon combustion: form 5.3. Advice for firefighter 5.3.1 Instructions: No specific fire-fighting 5.3.2 Special protective equi Gloves (EN 374). Protection ECTION 6: Accidenta 6.1. Personal precautions No naked flames. 6.1.1 Protective equipment See section 8.2 6.1.2 Protective equipment Suitable protective clothin See section 8.2 6.2. Environmental precau- Contain released product. 6.3. Methods and materia	able it will be listed below and the second	w. ass A foam extin ck-acting CO2 ex or mixture all quantities of or EN 13034). H res nt and emergent nel D5 or EN 13034	guisher, Water (quick-acting ktinguisher. of nitrous vapours. Heat/fire exposure: self-co gency procedures	extinguisher, reel). Intained breathing		5 + EN 137).
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Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. 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 strict hygiene. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a dry area. Keep container in a well-ventilated place.

7.2.2 Keep away from:

Heat sources, water/moisture.

- 7.2.3 Suitable packaging material:
- Synthetic material, metal.
- 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.

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.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

- 8.1.3 Applicable limit values when using the substance or mixture as intended
- If limit values are applicable and available these will be listed below.

Long-term systemic effects dermal

8.1.4 Threshold values

DNEL/DMEL - Workers N-(3-(trimethoxysilyl)propyl)ethylenediamine

	Effect level (DNEL/DMEL) Type		Value	Remark
	DNEL	Long-term systemic effects inhalation	260 mg/m³	
		Acute systemic effects inhalation	260 mg/m³	
tr	<u>imethoxyvinylsilane</u>			
	Effect level (DNEL/DMEL)	Туре	Value	Remark
	DNEL	Long-term systemic effects inhalation	27.6 mg/m³	

DNEL/DM	EL - (General	population	

N-(3-(trimethoxy	/silv	yI)	pro	рy	1)eth	lenediamine/

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	50 mg/m³	
	Acute systemic effects inhalation	50 mg/m³	
	Long-term systemic effects oral	8 mg/kg bw/day	
<u>trimethoxyvinylsilane</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	18.9 mg/m ³	
	Long-term systemic effects dermal	7.8 mg/kg bw/day	

	Lo	ong-term systemic effects oral
P	PNEC	

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Compartments	Value	Remark
Fresh water	0.062 mg/l	
Marine water	0.006 mg/l	
Fresh water (intermittent releases)	0.62 mg/l	
STP	25 mg/l	
Fresh water sediment	0.22 mg/kg sediment dw	
Marine water sediment	0.022 mg/kg sediment dw	
Soil	0.009 mg/kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

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Date of revision: 2022-03-28

3.9 mg/kg bw/day

0.3 mg/kg bw/day

Х-ТАСК

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 strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Protective gloves against chemicals (EN 374).

	Measured breakthrough time	Thickness	Protection index	Remark
natural rubber		≥ 0.4 mm		Good resistance
nitrile rubber		≥ 0.4 mm		Good resistance
PVA		≥ 0.4 mm		Good resistance

c) Eye protection:

Safety glasses (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

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	Variable in colour, depending on the composition
Particle size	Not applicable (liquid)
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	No data available in the literature
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; insoluble
Relative density	1.40 ; 20 °C
Absolute density	1400 kg/m³ ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	No data available in the literature
рН	Not applicable (non-soluble in water)

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

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

Water/moisture.

10.6. Hazardous decomposition products

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Revision number: 0900

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours.

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

<u>X-TACK</u>

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

<u>N-(3-(trimethoxysilyl)propyl)ethylenediamine</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	EPA OPPTS	2295 mg/kg bw		Rat (male /	Experimental value	
		870.1100			female)		
Dermal	LD50	EPA OPPTS	> 2000 mg/kg bw	24 h	Rabbit (male /	Experimental value	
		870.7600			female)		
Inhalation (aerosol)	LC50	Equivalent to OECD	1.49 mg/l - 2.44	4 h	Rat (male /	Experimental value	
		403	mg/l		female)		

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD	6899 mg/kg bw -		Rat (male /	Experimental value	
		401	7012 mg/kg bw		female)		
Dermal	LD50	Equivalent to OECD	3158 mg/kg bw -	24 h	Rabbit (male /	Experimental value	
		402	3760 mg/kg bw		female)		
Inhalation (vapours)	LC50	Equivalent to OECD	16.8 mg/l	4 h	Rat (male /	Experimental value	
		403	_		female)		

Conclusion

Not classified for acute toxicity

Corrosion/irritation

<u>X-TACK</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Slightly irritating	EPA OPPTS 870.2500	4 h	24; 48; 72 hours	Rabbit	Experimental value	
<u>methoxyvinylsilane</u>							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405	24 h	1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating		24 h	24; 48; 72 hours	Rabbit	Experimental	

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

<u>X-TACK</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>N-(3-(trimethoxysilyl)propyl)ethylenediamine</u>

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406			Guinea pig (male / female)	Experimental value	
imethoxyvinylsilane							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406			Guinea pig (female)	Experimental value	

Conclusion

Reason for revision: 2, 3

Publication date: 2005-03-29 Date of revision: 2022-03-28

Not classified as sensitizing for inhalation Not classified as sensitizing for skin

Specific target organ toxicity

<u>X-TACK</u>

No (test)data on the mixture available Judgement is based on the relevant ingredients N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (stomach tube)	NOAEL	OECD 422	≥ 500 mg/kg bw		No effect	28 day(s) - 29 day(s)	Rat (male / female)	Experimental value
Dermal	NOAEL	Subacute toxicity test	≥ 1545 mg/kg bw/day		No adverse systemic effects	11 day(s)	Rat (male / female)	Experimental value
Inhalation (aerosol)	NOAEC	OECD 413	15 mg/m³ air	Respiratory tract	No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation (aerosol)	LOAEL	OECD 413	45 mg/m ³ air	Respiratory tract		13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	 Value determination
Oral (stomach tube)	NOAEL	OECD 422	62.5 mg/kg bw/day			6 weeks (daily) - 8 weeks (daily)	 Experimental value
Oral (stomach tube)	LOAEL	OECD 422	250 mg/kg bw/day	Bladder		6 weeks (daily) - 8 weeks (daily)	 Experimental value
Inhalation (vapours)	NOAEC	Subchronic toxicity test	100 ppm			14 weeks (6h / day, 5 days / week)	 Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

<u>X-TACK</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients N-(3-(trimethoxysilyl)propyl)ethylenediamine

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster ovary (CHO)		Experimental value	

trimethoxyvinylsilane

Result	Method	Test substrate	Effect	Value determination	Remark
Positive with metabolic activation, positive without metabolic activation	OECD 473	CHL/IU cells	Chromosome aberrations	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)		Experimental value	

Mutagenicity (in vivo)

X-TACK

No (test)data on the mixture available

Judgement is based on the relevant ingredients N-(3-(trimethoxysilyl)propyl)ethylenediamine

14 1	5 (timethoxyshylp opyretrytenedidinine								
	Result	Method	Exposure time	Test substrate	Organ	Value determination			
	Negative (Intraperitoneal)	Equivalent to OECD	30 h - 72 h	Mouse (male / female)		Experimental value			
		474							

Reason for revision: 2, 3

Publication date: 2005-03-29 Date of revision: 2022-03-28

	X-TACK							
<u>trimethoxyvinylsilane</u>								
Result	Method	Exposure time	Test substrate	Organ	Value determination			
Negative (Inhalation (vapours))	OECD 489	2 days (1x / day)	Rat (male)		Experimental value			

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

<u>X-TACK</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

<u>X-TACK</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients N-(3-(trimethoxysilyl)propyl)ethylenediamine

	Parameter	Method	Value	Exposure time	Species	Effect	- 0.	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	750 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	750 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	Equivalent to OECD 422	≥ 500 mg/kg bw/day		Rat (male / female)	Degeneration of heart tissue		Experimental value

trimethoxyvinylsilane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation (vapours))	NOAEL	EPA OTS 798.4350	100 ppm	10 days (gestation, 6h / day)	Rat	No effect	Skeleton	Experimental value
Maternal toxicity (Inhalation (vapours))	NOAEL	EPA OTS 798.4350	25 ppm	10 days (gestation, 6h / day)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL (P)	OECD 422	1000 mg/kg bw/day	≤ 43 day(s)	Rat (male)	No effect		Experimental value
	NOAEL (P)	OECD 422	250 mg/kg bw/day	≥ 60 day(s)	Rat (female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

X-TACK

No (test)data on the mixture available

Chronic effects from short and long-term exposure

X-TACK

Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

X-TACK

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

Reason for revision: 2, 3

Publication date: 2005-03-29 Date of revision: 2022-03-28

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	597 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	EU Method C.2	81 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	8.8 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	3.1 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC		≥ 1 ppm	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro- organisms	EC50	DIN 38412-8	67 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Nominal concentration
imethoxyvinylsilane	•							
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		191 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	168.7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50		> 89 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC		> 89 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic	NOEC	OECD 211	28.1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
crustacea						-,		

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Biodegradation water			
Method	Value	Duration	Value determination
EU Method C.4	39 %; GLP	28 day(s)	Experimental value
Half-life water (t1/2 water)			
Method	Value	Primary degradation/mineralisation	Value determination
OECD 111	0.025 h; pH = 7	Primary degradation	Experimental value
methoxyvinylsilane		÷	
Biodegradation water			
Method	Value	Duration	Value determination
OECD 301F	51 %; Oxygen consumption	28 day(s)	Experimental value
Phototransformation air (DT50	air)		
Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	4.458 h	1.5E6 /cm ³	Calculated value
Half-life water (t1/2 water)			
Method	Value	Primary degradation/mineralisation	Value determination

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

<u>X-TACK</u>

Log Kow						
	Method	Remark	Value	Temperature	Value determination	
		Not applicable (mixture)				

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N-(3-(trimethoxysilyl)propyl)ethylenediamine

BCF f	ishes							
Par	rameter	Method	N N	Value	Duration	Species		Value determination
								Data waiving
Log K	(ow							
Me	thod		Remark		Value		Temperature	Value determination
KO۱	WWIN				-0.3		20 °C	QSAR
meth	noxyvinylsilane							
Log K	(ow		_					
Me	thod		Remark		Value		Temperature	Value determination
KO١	WWIN				1.1		20 °C	QSAR

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	3.477	Calculated value
nethoxyvinylsilane log) Koc			
	Method	Value	Value determination

Value Method Temperature Remark Value determination SRC HENRYWIN v3.20 SRC HENRYWIN v3.20 SRC HENRYWIN v3.20 SRC HENRYWIN v3.20

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

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

<u>X-TACK</u>

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

<u>N-(3-(trimethoxysilyl)propyl)ethylenediamine</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

Can be considered as non 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 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). 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. Dispose of the small quantities as 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 02 (plastic packaging).

15 01 04 (metallic packaging).

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Х-ТАСК

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number					
Transport	Not subject				
14.2. UN proper shipping name					
14.3. Transport hazard class(es)					
Hazard identification number					
Class					
Classification code					
14. <u>4. Packing group</u>					
Packing group					
Labels					
14.5. Environmental hazards					
Environmentally hazardous substance mark	no				
14.6. Special precautions for user					
Special provisions					
Limited quantities					
14.7. Maritime transport in bulk according to IMO instruments					
Annex II of MARPOL 73/78	Not applicable, based on available data				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <u>European legislation:</u>

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

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
N-(3-(trimethoxysilyl)propyl) ethylenediamine trimethoxyvinylsilane	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 development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	 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 w 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:
• trimethoxyvinylsilane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	 Shall not be used, as substance or as mixtures in aerosol dispensers where these aeros dispensers are intended for supply to the general public for entertainment and decorativ purposes such as the following: metallic glitter intended mainly for decoration, artificial snow and frost, "whoopee" cushions, silly string aerosols, imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs.

	X-TA	СК
		 Without prejudice to the application of other Community provisions on the classification packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
• trimethoxyvinylsilane	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, or germ 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 sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A or 1B — skin corrosive category 1 or eye 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) 2020/208

National legislation Belgium X-TACK

No data available

National legislation The Netherlands

<u>X-TACK</u>	-
Waterbezwaarlijkheid	B (4); Algemene Beoordelingsmethodiek (ABM)
National legislation France	
<u>X-TACK</u>	

No data available

National legislation Germany

<u>X-IACK</u>				
WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017			
N-(3-(trimethoxysilyl)propyl)ethylenediamine				
TA-Luft	5.2.5/I			
trimethoxyvinylsilane				
TA-Luft	5.2.5			

National legislation Austria

X-TACK

No data available

National legislation United Kingdom

X-TACK

No data available

Other relevant data

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

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SECTION 16: Other information

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

- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
- H332 Harmful if inhaled.

H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled. EUH208 Contains a sensitising substance. May produce an allergic reaction.

(*)	
(*)	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.

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