SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830



AL-FIX

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

1.1. Product identifier

Product name Registration number REACH Product type REACH : AL-FIX : 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 Sealing compound

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 dangerous according to the criteria of Regulation (EC) No 1272/2008							
Class	Category	Hazard statements					
Skin Irrit.	category 2	H315: Causes skin irritation.					
Eye Irrit.	category 2	H319: Causes serious eye irritation.					
STOT SE	category 3	H335: May cause respiratory irritation.					

2.2. Label elements

Contains: ethyl 2-cyanoacr	ylate.		
Signal word	Warning		
H-statements	-		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
P-statements			
P280	Wear protective gloves, protective clothing an	d eye protection/face protection.	
P304 + P340	IF INHALED: Remove person to fresh air and ke	ep comfortable for breathing.	
P302 + P352	IF ON SKIN: Wash with plenty of water and so	ap.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for sev Continue rinsing.	eral minutes. Remove contact lenses, if present an	d easy to do.
Created by: Brandweerinformatiecent	rum voor gevaarlijke stoffen vzw (BIG)	Publication date: 2000-09-22	en
Technische Schoolstraat 43 A, B-2440	Geel	Date of revision: 2020-07-09	-16239-702-en
http://www.big.be			-66
© BIG vzw			162
Reason for revision: 3,2; 4; 9; 15			134-
Revision number: 0900		Product number: 32181	1/12

P312 P403 + P233 Supplemental information Call a POISON CENTER/doctor if you feel unwell. Store in a well-ventilated place. Keep container tightly closed.

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

2.3. Other hazards

No other hazards known

FUH202

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
ethyl 2-cyanoacrylate 01-2119527766-29	7085-85-0 230-391-5		Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)	Constituent
1,4-dihydroxybenzene 01-2119524016-51	123-31-9 204-617-8		Muta. 2; H341 Carc. 2; H351 Skin Sens. 1; H317 Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	(1)(2)(9)	Constituent

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(9) M-factor, see heading 16

(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. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

Do not pull surfaces apart with a direct opposing action. Immerse the bonded surfaces in warm, soapy water. Peel or roll surfaces apart with a blunt edge, e.g. spatula. Consult a doctor/medical service.

After eye contact:

Do not try to open the eyes by manipulation. Wash thoroughly with warm water. Apply a moist gauze patch. Consult a doctor/medical service. After ingestion:

Do not try to pull the lips with a direct opposing action. Apply lots of warm water and saliva. Immediately consult a doctor/medical service.

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

4.2.1 Acute symptoms After inhalation:

Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties. After skin contact: Tingling/irritation of the skin. After eye contact:

Irritation of the eye tissue. After ingestion:

No effects known.

4.2.2 Delayed symptoms No effects known.

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:

Reason for revision: 3,2; 4; 9; 15

Publication date: 2000-09-22 Date of revision: 2020-07-09

Revision number: 0900

Product number: 32181

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). At very high temperature: release of toxic/combustible gases/vapours (hydrogen cyanide). Polymerizes on exposure to water (moisture) and on exposure to temperature rise: pressure rise and possible bursting of container.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). 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 heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material, e.g.: sand, saw dust, kieselguhr. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 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. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Remove contaminated clothing immediately. Avoid contact of substance with water. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: 2 °C - 8 °C. Store in a cool area. Store in a dry area. Keep out of direct sunlight. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, (strong) acids, oxidizing agents, water/moisture.

7.2.3 Suitable packaging material:

Polyethylene.

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.

Belgium

2-Cyanoacrylate d'éthyle	Time-weighted average exposure limit 8 h	0.2 ppm
	Time-weighted average exposure limit 8 h	1.04 mg/m ³
Hydroquinone	Time-weighted average exposure limit 8 h	1 mg/m³

Reason for revision: 3,2; 4; 9; 15

				A						
France										
Hydroquinone					0	0 1	ure limit 8 h (VL: Vale	eur non		2 mg/m³
			r	régle	ementaire indica	itive)				
UK				<u>cl.</u>				(2005))		0.2
Ethyl cyanoacrylate							kposure limit (EH40/ kposure limit (EH40/			0.3 ppm 1.5 mg/m ³
Hydroquinone							ure limit 8 h (Workpl		ure limit	0.5 mg/m ³
					10/2005))	age expose				0.5 mg/m
USA (TLV-ACGIH)										
Cyanoacrylates, Ethyl and Methy	/I		<u>1</u>	Time	e-weighted avera	age exposi	ure limit 8 h (TLV - Ad	dopted Va	alue)	0.2 ppm
					rt time value (TL)					1 ppm
Hydroquinone			[]	lime	e-weighted avera	age exposi	ure limit 8 h (TLV - Ad	dopted Va	alue)	1 mg/m ³
b) National biological limit value If limit values are applicable and		these will be	e listed belo	ow.						
USA (BEI-ACGIH) Methemoglobin inducers (Methemoglobin)		Blood: durin	ng or end o	of sh	ift		1,5 % of hemoglobin	Backgrou quantati		ecific, Semi-
Methemoglobin inducers (Methemoglobin)		Blood: durin	ng or end o	of sh	ift		5 % of hemoglobin	<u> </u>		ecific - Intende
1.2 Sampling methods										
Product name				_	ſest		Number			
Ethyl 2-Cyanoacrylate				_	OSHA		55		_	
Hydroquinone					NIOSH		5004		4	
Hydroquinone 1.3 Applicable limit values when u					DSHA		2094			
Effect level (DNEL/DMEL) DNEL		e g-term syste g-term local					Value 9.25 mg/m ³ 9.25 mg/m ³		Remark	
1,4-dihydroxybenzene										
Effect level (DNEL/DMEL) DNEL	Тур	e g-term syste	mic offoct	c inl	halation		Value 2.1 mg/m ³		Remark	
		g-term syste					3.33 mg/kg bw/day			
DNEL/DMEL - General population ethyl 2-cyanoacrylate		<u> </u>								
Effect level (DNEL/DMEL)	Тур	e					Value		Remark	
DNEL	Lon	g-term syste	mic effects inhalation			9.25 mg/m³				
	Lon	g-term local	effects inh	nalat	tion		9.25 mg/m³			
1,4-dihydroxybenzene										
Effect level (DNEL/DMEL) DNEL	Тур	e g-term syste	mie offent		halation		Value		Remark	
DNEL		• /					1.05 mg/m ³			
		e ,	emic effects dermal emic effects oral			1.66 mg/kg bw/day 0.6 mg/kg bw/day				
PNEC 1,4-dihydroxybenzene										
Compartments			Value	_			Remar	k		
Fresh water			0.57 μg/l							
Marine water			0.057 μg/	′I						
Fresh water (intermittent relea	ases)		1.34 μg/l							
STP Froch water sodiment			0.71 mg/l		imont du					
Fresh water sediment Marine water sediment			4.9 μg/kg		iment dw diment dw					
Soil			0.49 μg/kg 0.64 μg/kg	-						
1.5 Control banding			19.0 4 μβ/ Κξ	. _ö 30			I			
If applicable and available it	will be li	sted below								
Exposure controls		al desertat	on If card	line	التعتم معم ماط	hlo ave		attach	dinart	A humana
e information in this section is levant exposure scenarios that	-					uie, expo	sure scenarios are	auache	u ili anne>	x. Aiways use
2.1 Appropriate engineering cont			. iacriante	.u u						
Keep away from naked flame		leasure the	e concent	rati	on in the air re	egularly. C	Carry operations in	the ope	n/under lo	ocal
exhaust/ventilation or with re						•		•		
2.2 Individual protection measure				•						
Observe normal hygiene stan Respiratory protection:	dards. D	o not eat, d	lrink or sn	nok	e during work.					
or revision: 3,2; 4; 9; 15							Publication date: 20)00-09-22		
							Date of revision: 20			
number: 0900							Draduct room 1 00	104		
							Product number: 32	181		4

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection: Protective gloves against chemicals (EN 374)

	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.1 mm	Class 6	

c) Eye protection:

Face shield (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Liquid	
Odour	Characteristic odour	
Odour threshold	No data available in the literature	
Colour	Colourless	
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	150 °C	
Evaporation rate	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	
	Acetone ; soluble	
Relative density	1.05	
Decomposition temperature	No data available in the literature	
Auto-ignition temperature	500 °C	
Flash point	87 °C	
Explosive properties	No chemical group associated with explosive properties	
Oxidising properties	No chemical group associated with oxidising properties	
pH	No data available in the literature	

9.2. Other information

Absolute density

1050 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Temperature above flashpoint: higher fire/explosion hazard.

10.2. Chemical stability

Unstable on exposure to moisture. Unstable on exposure to air.

10.3. Possibility of hazardous reactions

Polymerizes on exposure to water (moisture) and on exposure to temperature rise: pressure rise and possible bursting of container.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

(strong) acids, oxidizing agents, water/moisture.

10.6. Hazardous decomposition products

At very high temperature: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results Acute toxicity

<u>AL-FIX</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients ethyl 2-cyanoacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 423	> 5000 mg/kg bw		Rat (male)	Experimental value	
Skin	LD50	Equivalent to OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation						Data waiving	

1,4-dihydroxybenzene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 401	> 375 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw		Rabbit (male / female)	Experimental value	
Inhalation (aerosol)	LD0		≥ 7.8 mg/l air	1 h	Rat (female)	Read-across	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

<u>AL-FIX</u>

No (test)data on the mixture available

Classification is based on the relevant ingredients

<u>eth</u>	yl 2-cyanoacrylate	

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Irritating	Equivalent to OECD 405	72 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Slightly irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Experimental value	
Skin	Irritating; category 2					Annex VI	
Inhalation	Irritating; STOT SE cat.3					Annex VI	

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

1,4-dihydroxybenzene

Route of exposure	Result	Method	Exposure time	Time point	 Value determination	Remark
	Serious eye damage; category 1				Annex VI	
Skin	Not irritating		24 h	24 hours	Weight of evidence	

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Respiratory or skin sensitisation

<u>AL-FIX</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients ethyl 2-cyanoacrylate

R	oute of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
S	kin	0	Guinea pig maximisation test			Guinea pig (male / female)	Literature study	

Reason for revision: 3,2; 4; 9; 15

Publication date: 2000-09-22 Date of revision: 2020-07-09

Revision number: 0900

AL-FIX Method Exposure time Observation time Species Value determination Remark

				point			
Skin	0	Equivalent to OECD 429	3 day(s)		Mouse (female)	Experimental value	

Conclusion

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

Specific target organ toxicity

1,4-dihydroxybenzene Route of exposure Result

AL-FIX

No (test)data on the mixture available

Judgement is based on the relevant ingredients ethyl 2-cyanoacrylate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
								determination
Oral								Data waiving
Dermal								Data waiving
Inhalation								Data waiving

1,4-dihydroxybenzene

,4-di	<u>hydroxybenzene</u>								
Ro	oute of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
	ral (stomach be)		Equivalent to OECD 453	25 mg/kg bw/day			65 weeks (5 days / week) - 103 weeks (5 days / week)	Rat (male)	Experimental value
D	ermal		Equivalent to OECD 411	73.9 mg/l - 109.6 mg/l			13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
In	halation								Data waiving

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

AL-FIX

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethyl 2-cyanoacrylate

termination Remark
ental value
ental value
termination Remark
ental value
1

cells)

Mutagenicity (in vivo)

AL-FIX

No (test)data on the mixture available

Judgement is based on the relevant ingredients

1,4-dihydroxybenzene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Positive	Equivalent to OECD		Mouse (male)		Experimental value
	483				
Negative (Oral (stomach tube))		10 weeks (5 days / week)	Rat (male)		Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

AL-FIX

Reason for revision: 3,2; 4; 9; 15

Publication date: 2000-09-22 Date of revision: 2020-07-09

Revision number: 0900

No (test)data on the mixture available

Judgement is based on the relevant ingredients

1,4-dihydroxybenzene

annyarenysei								
Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Oral	Dose level	Equivalent to OECD 453	50 mg/kg bw/day	65 weeks (5 days / week) - 103 weeks (5 days / week)	Rat (male)	Tumor formation	Kidney	Experimental value
Oral	Dose level	Equivalent to OECD 453	bw/day	65 weeks (5 days / week) - 103 weeks (5 days / week)		Change in the haemogramme/ blood composition	Blood	Experimental value

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

<u>AL-FIX</u>

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethyl 2-cyanoacrylate

		Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
									determination
	Developmental toxicity								Data waiving
	Effects on fertility								Data waiving
1,4	-dihydroxybenzene								

	Parameter	Method	Value	Exposure time	Species	Effect	- 0.	Value determination
Developmental toxicity (Oral (stomach tube))	NOEL	Equivalent to OECD 414	100 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (stomach tube))		Equivalent to OECD 414	100 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL (F1/F2)	EPA OTS 798.4700	150 mg/kg bw/day	40 weeks (daily)	Rat (male / female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

AL-FIX

No (test)data on the mixture available

Chronic effects from short and long-term exposure

<u>AL-FIX</u>

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

AL-FIX

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients $\underline{1,4\text{-}dihydroxybenzene}$

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	0.638 mg/l	96 h	Oncorhynchus mykiss	Flow- through system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	Equivalent to OECD 202	0.061 mg/l	48 h	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	Equivalent to OECD 201	0.33 mg/l	72 h		Static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	IC50		71 mg/l	2 h	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

Conclusion

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

12.2. Persistence and degradability

Reason for revision: 3,2; 4; 9; 15

ethyl 2-cyanoacrylate

Biodegradation water			
Method	Value	Duration	Value determination
EU Method C.4-A	98 %	28 day(s)	Read-across
1,4-dihydroxybenzene			
Biodegradation water			
Method	Value	Duration	Value determination
OECD 301C	70 %; Oxygen consumption	14 day(s)	Experimental value
Phototransformation air (DT50 air)		
Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	16.58 h	500000 /cm ³	Calculated value
Biodegradation soil			
Method	Value	Duration	Value determination
	100 %	1 day(s)	Experimental value

Conclusion

<u>Water</u>

Readily biodegradable in water

12.3. Bioaccumulative potential

<u>AL-FIX</u>

Re	mark	Value	Te	emperature	Value determination
No	t applicable (mixture	()			
<u>-</u>					
Method	Value	Duration	Species	<u>i</u>	Value determination
	No data av	ailable			
	(test not p	erformed)			
•	i::		•		·
	Remark	Value		Temperature	Value determination
		0.776		22 °C	Experimental value
<u>1e</u>				122 0	
<u>1e</u>					
<u>Method</u>	Value	Duration	Species		Value determination
_	Value 3.162	Duration	Species		
_		Duration	Species		Value determination
_		Duration	Species		Value determination
	e Method	e Method Value No data av (test not pr	Not applicable (mixture) e Method Value No data available (test not performed)	Not applicable (mixture) e Method Value No data available (test not performed)	Not applicable (mixture) Duration Method Value Duration No data available (test not performed) Species

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

ethyl 2-cyanoacrylate

(log) Koc

	Parameter	Method	Value	Value determination
	log Koc	SRC PCKOCWIN v2.0	0.834	Calculated value
1.4	-dihydroxybenzene			

log) Koc				-					
Parameter				Method			Value		Value determination
log Koc							0.97 - 1.	585	Estimated value
Percent distribution									
Method	Fraction air	Fraction biota	Fraction		Fraction soil	Fraction	water	Value determ	ination
			sedimen	t					
Mackay level I						99.9 %		Experimental	value

Conclusion

Contains component(s) with potential for mobility in 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. Other adverse effects

AL-FIX

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)

Reason for revision: 3,2; 4; 9; 15

<u>ethyl 2-cyanoacrylate</u> Groundwater Groundwater pollutant

<u>1,4-dihydroxybenzene</u> Groundwater

Groundwater pollutant

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

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

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. Remove waste in accordance with local and/or national regulations. 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), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14. <u>1</u> . UN number			
Transport	Not subject		
14.2. UN proper shipping name			
14.3. Transport hazard class(es)			
Hazard identification number			
Class			
Classification code			
4. Packing group			
Packing group			
Labels			
14. <u>5</u> . Environmental hazards			
Environmentally hazardous substance mark	no		
14.6. Special precautions for user			
Special provisions			
Limited quantities			
14.7. Transport in bulk according to Annex II of Marpol and the IBC Co	de		
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
88 % - 99 %	
924 g/l - 1039.5 g/l	

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	
	(EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8	 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, 	

Reason for revision: 3,2; 4; 9; 15

AL-	FIX
1 and 2, 2.14 categories 1 and 2, 2.15 types <i>A</i> 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.	 3. 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,

National legislation Belgium <u>AL-FIX</u>

No data available

National legislation The Netherlands

Waterbezwaarlijkheid	B (3); Algemene Beoordelingsmethodiek (ABM)
.,4-dihydroxybenzene	
SZW - Lijst van	Als kankerverwekkende stof ingedeeld in categorie 1A of 1B als bedoeld in bijlage I van de Verordening (EG) nr.
kankerverwekkende stoffen	1272/2008 van het Europees parlement en de Raad van 16 december 2008; Listed in SZW-list of carcinogenic substance
SZW - Lijst van mutagene	Als mutagene stof ingedeeld in categorie 1A en 1B als bedoeld in bijlage I van de Verordening (EG) nr. 1272/2008 van h
stoffen	Europees parlement en de Raad van 16 december 2008; Listed in SZW-list of mutagenic substances

No data available

<u>1,4-dihydroxybenzene</u>				
	Catégorie cancérogène	Hydroquinone; C2		
	Catégorie mutagène	Hydroquinone; M2		

National legislation Germany

<u>A</u>	<u>AL-FIX</u>					
	WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017				
ethyl 2-cyanoacrylate						
	TA-Luft	5.2.5				
1	1,4-dihydroxybenzene					
	TA-Luft	5.2.5/I				

National legislation United Kingdom <u>AL-FIX</u>

No data available

Other relevant data

No data available

ethyl 2-cyanoacrylate	
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ethyl 2-cyanoacrylate					
TLV - Skin Sensitisation	Cyanoacrylates, Ethyl and Methyl; SEN; Sensitization				
TLV - Respiratory Sensitisation	Cyanoacrylates, Ethyl and Methyl; SEN; Sensitization				
1,4-dihydroxybenzene	1,4-dihydroxybenzene				
TLV - Skin Sensitisation	Hydroquinone; SEN; Sensitization				
TLV - Carcinogen	Hydroquinone; A3				
IARC - classification	3; Hydroquinone				

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

Reason for revision: 3,2; 4; 9; 15

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

H302 Harmful if swallowed.H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.

(*)	INTERNAL CLASSIFICATION BY BIG	
ADI	Acceptable daily intake	
AOEL	Acceptable operator exposure level	
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	
M-factor		
1.4-dihvdroxybenz	zene 10 CLP An	ın

1,4-dihydroxybenzene 10 CLP Annex VI (ATP 1) Specific concentration limits CLP Ethyl 2-cyanoacrylate C ≥ 10 % STOT SE 3; H335 CLP Annex VI (ATP 0)

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