SAFETY DATA SHEET



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

AL-FIX GEL

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 GEL : 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	ard 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: 2000-11-23	-16239-702-en
Technische Schoolstraat 43 A, B-2440	Geel	Date of revision: 2020-07-16	.702
http://www.big.be			39-
© BIG vzw			162
Reason for revision: 3.2; 5.2; 7; 9; 10			134-
Revision number: 0701		Product number: 34547	1/12

P312 P403 + P233

Supplemental information FUH202 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
	7085-85-0 230-391-5		Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)	Constituent
, , , , , , , , , , , , , , , , , , , ,	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. Take victim to an ophthalmologist.

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.

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; 5.2; 7; 9; 10

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). On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). Reacts violently with water (moisture): release of heat. Polymerizes on exposure to water (moisture): release of heat.

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 inert absorbent material. 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. Protect against frost. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from:

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

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.

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/m³
Hydroquinone	Time-weighted average exposure limit 8 h	1 mg/m³

Reason for revision: 3.2; 5.2; 7; 9; 10

Publication date: 2000-11-23 Date of revision: 2020-07-16

Product number: 34547

Hydroquinone			Ь	ime-weighted	verage expect	ure limit 8 h (VL: Vale			2 mg/m ³
				églementaire ir	• •				2 mg/m
υκ									
Ethyl cyanoacrylate			S	hort time value	(Workplace e	exposure limit (EH40/	2005))		0.3 ppm
			s	hort time value	(Workplace e	exposure limit (EH40/	2005))		1.5 mg/m ³
Hydroquinone				ime-weighted a EH40/2005))	iverage exposi	ure limit 8 h (Workpl	ace expos	ure limit	0.5 mg/m ⁱ
USA (TLV-ACGIH)									
Cyanoacrylates, Ethyl and Methy	rl				<u> </u>	ure limit 8 h (TLV - A	dopted Va	lue)	0.2 ppm
Hydroquinone				hort time value	· ·	ed Value) ure limit 8 h (TLV - A	dented Va	luo)	1 ppm 1 mg/m ³
b) National biological limit value			I'	ine-weighted a	iverage exposi	ure innit 8 in (TLV - Ai		iue)	
If limit values are applicable and USA (BEI-ACGIH)		these will be	listed belo	ow.					
Methemoglobin inducers (Methemoglobin)		Blood: durin	g or end of	f shift		1,5 % of hemoglobin	Backgrou quantativ	<i>'</i> '	ecific, Semi-
Methemoglobin inducers (Methemoglobin)		Blood: durin	g or end of	f shift		5 % of hemoglobin	Backgrou changes	ind, Nonspe	ecific - Inten
.2 Sampling methods						·			
Product name				Test		Number		4	
Ethyl 2-Cyanoacrylate				OSHA		55		4	
Hydroquinone				NIOSH		5004		4	
Hydroquinone	icina the	ubstance co	mixture -	OSHA s intended		2094			
Effect level (DNEL/DMEL) DNEL				Value ects inhalation 9.25 mg/m³ inhalation 9.25 mg/m³					
1,4-dihydroxybenzene									
Effect level (DNEL/DMEL)	Тур				Value		Remark		
DNEL						2.1 mg/m ³ 3.33 mg/kg bw/day			
DNEL/DMEL - General population		g term syster		actinat		15.55 mg/kg bw/udy			
ethyl 2-cyanoacrylate									
	Тур			in halation		Value		Remark	
Effect level (DNEL/DMEL)	100	g-term syster	mic effects			9.25 mg/m ³			
		g-term local (alation		19.25 mg/m ²			
Effect level (DNEL/DMEL)		g-term local o		alation		9.25 mg/m ³			
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Full face mask with filter type A at conc. in air > exposure limit.

b	<u>b) Hand protection:</u> 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:

Safety glasses (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
Viscosity	Viscous
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

Reacts violently with water (moisture): release of heat. Polymerizes on exposure to water (moisture): release of heat.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

Reason for revision: 3.2; 5.2; 7; 9; 10

Publication date: 2000-11-23 Date of revision: 2020-07-16

Product number: 34547

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results Acute toxicity

AL-FIX GEL

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 /	Experimental value	
					female)		
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male /	Experimental value	
					female)		
Inhalation (aerosol)	LD0		≥ 7.8 mg/l air	1 h	Rat (female)	Read-across	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

AL-FIX GEL

No (test)data on the mixture available

Classification is based on the relevant ingredients

ethyl 2-cyanoacrylat	e

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Еуе	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

AL-FIX GEL

No (test)data on the mixture available

Judgement is based on the relevant ingredients ethyl 2-cyanoacrylate

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

Reason for revision: 3.2; 5.2; 7; 9; 10

Publication date: 2000-11-23 Date of revision: 2020-07-16

Revision number: 0701

		AL-FIX	GEL			
		-				
	Method	•	Observation time	Species	Value determination	Remark
			point			
izing	Equivalent to OECD	3 day(s)		Mouse (female)	Experimental value	

Skin Sensitizing Equivalent to OECD 3 day(s) 429

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 GEL

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>ethyl 2-cyanoacrylate</u>

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

, ,					1			
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 453	25 mg/kg bw/day		No effect	65 weeks (5 days / week) - 103 weeks (5 days / week)	Rat (male)	Experimental value
Dermal	NOAEL	Equivalent to OECD 411	73.9 mg/l - 109.6 mg/l		No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation								Data waiving

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

AL-FIX GEL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

ethyl 2-cyanoacrylate

		- · · · ·			
Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 473	Human lymphocytes	No effect	Experimental value	
activation, negative					
without metabolic					
activation					
Negative with metabolic	OECD 476	Mouse (lymphoma L5178Y	No effect	Experimental value	
activation, negative		cells)			
without metabolic					
activation					
l-dihydroxybenzene					
Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative					
without metabolic					
without metabolic activation					

cells)

Mutagenicity (in vivo)

AL-FIX GEL

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
	Equivalent to OECD 483		Mouse (male)		Experimental value
Negative (Oral (stomach tube))	Equivalent to OECD 478	10 weeks (5 days / week)	Rat (male)		Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

AL-FIX GEL

Reason for revision: 3.2; 5.2; 7; 9; 10

No (test)data on the mixture available

Judgement is based on the relevant ingredients

1,4-dihydroxybenzene

anyaroxybe								_
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	≥ 25 mg/kg bw/day	65 weeks (5 days / week) - 103 weeks (5 days / week)	Rat (female)	Change in the haemogramme/ blood composition	Blood	Experimental value

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

AL-FIX GEL

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
<u>1,</u> 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 GEL

No (test)data on the mixture available

Chronic effects from short and long-term exposure

<u>AL-FIX GEL</u>

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

<u>AL-FIX GEL</u>

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	Test design	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	Pseudokirchneri ella subcapitata	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; 5.2; 7; 9; 10

ethy	/12	l-cya	noa	acry	lat	e
						_

Biodegradation water			
Method	Value	Duration	Value determination
EU Method C.4-A	98 %	28 day(s)	Read-across
4-dihydroxybenzene			
Biodegradation water			
Method	Value	Duration	Value determination
OECD 301C	70 %; Oxygen consumption	14 day(s)	Experimental value
Phototransformation air (DT50 a	ir)		
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>

Does not contain any not readily biodegradable component(s)

12.3. Bioaccumulative potential

AL-FIX GEL

Log Kow

ethod	Re	emark	Value	Temperature	Value determination
	No	ot applicable (mixture)			
hyl 2-cyanoacryla	ate				
BCF fishes					
Parameter	Method	Value	Duration	Species	Value determination
		No data avail	able		
		(test not perf	ormed)		
Log Kow	-	·	·		
Method		Remark	Value	Temperature	Value determination
EU Method A.8			0.776	22 °C	Experimental value
4-dihydroxybenz	<u>ene</u>		·		
BCF fishes					
Parameter	Method	Value	Duration	Species	Value determination
BCF 3.16		3.162			Estimated value
Log Kow					
Method Re		Remark	Value	Temperature	Value determination
	-		0.59	20 °C - 25 °C	Experimental value

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

ethyl 2-cyanoacrylate

(log) Koc

Ρ	Parameter	Method	Value	Value determination
le	og Koc	SRC PCKOCWIN v2.0	0.834	Calculated value
1,4-0	dihydroxybenzene	•		<u> </u>

(log) Koc									
Parameter				Method		Value		Value determination	
log Koc							0.97 - 1.	585	Estimated value
Percent distributio	on								
Method	Fraction air	Fraction biota	Fraction		Fraction soil	Fraction	water	Value determ	ination
			sediment	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 GEL

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; 5.2; 7; 9; 10

Groundwater

Groundwater pollutant

ethyl 2-cyanoacrylate Groundwater Groundwater pollutant

1,4-dihydroxybenzene 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

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. 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. UN number</u>				
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. <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 Code			
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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
80 % - 100 %	
840 g/l - 1050 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
criteria for any of the following hazard classes	 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,

Reason for revision: 3.2; 5.2; 7; 9; 10

AL-FIX GEL						
Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2 types A and B, 2.9, 2.10, 2.12, 2.13 ca 1 and 2, 2.14 categories 1 and 2, 2.15 to F; (b) hazard classes 3.1 to 3.6, 3.7 adve effects on sexual function and fertility development, 3.8 effects other than r effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	tegories ornamental aspects, types A 2. Articles not complying with paragraph 1 shall not be placed on the market. 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: Y or on — can be used as fuel in decorative oil lamps for supply to the general public, and,					

National legislation Belgium AL-FIX GEL

No data available

National legislation The Netherlands

<u>AL-FIX GEL</u>	
Waterbezwaarlijkheid	B (4); Algemene Beoordelingsmethodiek (ABM)
1,4-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 substances
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 het
stoffen	Europees parlement en de Raad van 16 december 2008; Listed in SZW-list of mutagenic substances
National legislation France AL-FIX GEL	
No data available	
1,4-dihydroxybenzene	
Catégorie cancérogène	Hydroquinone; C2
Catégorie mutagène	Hydroquinone; M2
National legislation Germany	
AL-FIX GEL	
WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
ethyl 2-cyanoacrylate	
TA-Luft	5.2.5
<u>1,4-dihydroxybenzene</u>	-
TA-Luft	5.2.5/I
<u>National legislation United Kingdor</u> <u>AL-FIX GEL</u> No data available	<u>n</u>

Other relevant data

No data available

ethyl 2-cyanoacrylate	
TLV - Skin Sensitisation	Cyanoacrylates, Ethyl and Methyl; SEN; Sensitization
TLV - Respiratory Sensitisation	Cyanoacrylates, Ethyl and Methyl; SEN; Sensitization
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; 5.2; 7; 9; 10

SE

TION 16: C	Other information						
Full text of any	ny H-statements referred to under heading 3:						
	Harmful if swallowed.						
H315 Caus	Causes skin irritation.						
H317 May	May cause an allergic skin reaction.						
H318 Caus	uses serious eye damage.						
H319 Caus	uses serious eye irritation.						
H335 May	ay cause respiratory irritation.						
H341 Susp	spected of causing genetic defects.						
H351 Susp	spected of causing cancer.						
H400 Very	ry toxic to aquatic life.						
(*)	INTERNAL CLASSIFICATION BY BIG						
ADI	Acceptable daily intake						
AOEL	Acceptable operator exposure level						
CLP (EU-GH	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-dihydro	roxybenzene 10	CLP Annex VI (ATP 1)					
Specific concer	entration limits CLP						
	ranoacrylate C ≥ 10 % STOT SE 3; H335	CLP Annex VI (ATP 0)					

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: 3.2; 5.2; 7; 9; 10