# 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<br>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<br>EC No        | Conc. (C) | Classification according to CLP   | Note          | Remark      |
|---|------------------------|-----------|---|---------------|-------------|
|   | 7085-85-0<br>230-391-5 |           | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335  | (1)(2)(8)(10) | Constituent |
| , | 123-31-9<br>204-617-8  |           | Muta. 2; H341<br>Carc. 2; H351<br>Skin Sens. 1; H317<br>Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>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 <sup>3</sup>          |
|--|--|--|---|---|-----------------|--|---------------------------|-------------|------------------------------|
|  |  |  |   | 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 <sup>3</sup>        |
| Hydroquinone   |  |  |   | ime-weighted a<br>EH40/2005))   | iverage exposi  | ure limit 8 h (Workpl  | ace expos                 | ure limit   | 0.5 mg/m <sup>i</sup>        |
| 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)<br>ure limit 8 h (TLV - A                                      | dented Va                 | luo)        | 1 ppm<br>1 mg/m <sup>3</sup> |
| b) National biological limit value   |  |  | I'  | ine-weighted a  | iverage exposi  | ure innit 8 in (TLV - Ai   |                           | iue)        |                              |
| If limit values are applicable and<br>USA (BEI-ACGIH)  |  | these will be  | listed belo   | ow.   |                 |  |                           |             |                              |
| Methemoglobin inducers<br>(Methemoglobin)  |  | Blood: durin   | g or end of   | f shift   |                 | 1,5 % of<br>hemoglobin   | Backgrou<br>quantativ     | <i>'</i> '  | ecific, Semi-                |
| Methemoglobin inducers<br>(Methemoglobin)  |  | Blood: durin   | g or end of   | f shift   |                 | 5 % of hemoglobin  | Backgrou<br>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<br>s intended  |                 | 2094   |                           |             |                              |
| Effect level (DNEL/DMEL)<br>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 <sup>3</sup><br>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 <sup>3</sup>   |                           |             |                              |
|  |  | g-term local (   |   | alation   |                 | 19.25 mg/m <sup>2</sup>  |                           |             |                              |
| Effect level (DNEL/DMEL)   |  | g-term local o   |   | alation   |                 | 9.25 mg/m <sup>3</sup>   |                           |             |                              |
| Effect level (DNEL/DMEL) DNEL 1,4-dihydroxybenzene Effect level (DNEL/DMEL)  | Lon;<br>Typ  | e  | effects inh   |   |                 | Value  |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1.4-dihydroxybenzene   | Lon<br>Typ<br>Lon  | <b>e</b><br>g-term syster  | effects inh   | inhalation  |                 | Value<br>1.05 mg/m <sup>3</sup>  | 1                         | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1,4-dihydroxybenzene Effect level (DNEL/DMEL)  | Lon<br>Typ<br>Lon  | <b>e</b><br>g-term syster<br>g-term syster   | effects inh<br>mic effects<br>mic effects   | inhalation<br>dermal  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day                     |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1.4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL PNEC   | Lon<br>Typ<br>Lon  | <b>e</b><br>g-term syster  | effects inh<br>mic effects<br>mic effects   | inhalation<br>dermal  |                 | Value<br>1.05 mg/m <sup>3</sup>  |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1,4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL PNEC 1,4-dihydroxybenzene  | Lon<br>Typ<br>Lon  | e<br>g-term syster<br>g-term syster<br>g-term syster   | effects inh<br>mic effects<br>mic effects<br>mic effects  | inhalation<br>dermal  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1,4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL PNEC 1,4-dihydroxybenzene Compartments   | Lon<br>Typ<br>Lon  | e<br>g-term syster<br>g-term syster<br>g-term syster   | effects inh<br>mic effects<br>mic effects<br>mic effects<br><b>Value</b>  | inhalation<br>dermal  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day                     |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1,4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL PNEC 1,4-dihydroxybenzene  | Lon<br>Typ<br>Lon  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects  | inhalation<br>dermal<br>oral  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1.4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL PNEC 1.4-dihydroxybenzene Compartments Fresh water   | Lon<br>Lon<br>Lon  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>Value<br>0.57 µg/l  | inhalation<br>dermal<br>oral  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         PNEC         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water  | Lon<br>Lon<br>Lon  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>Value<br>0.57 μg/l<br>0.057 μg/l  | inhalation<br>dermal<br>oral  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL) DNEL 1.4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL PNEC 1.4-dihydroxybenzene Compartments Fresh water Marine water Fresh water Kresh water (intermittent relea STP Fresh water sediment   | Lon<br>Lon<br>Lon  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 μg/l<br>0.057 μg/l<br>1.34 μg/l<br>0.71 mg/l<br>4.9 μg/kg s  | inhalation<br>dermal<br>oral<br>sediment dw   |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         PNEC         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releas         STP         Fresh water sediment         Marine water sediment  | Lon<br>Lon<br>Lon  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>1.34 µg/l<br>0.71 mg/l<br>4.9 µg/kg s<br>0.49 µg/kg                            | inhalation<br>dermal<br>oral<br>sediment dw<br>g sediment dw  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         PNEC         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releas         STP         Fresh water sediment         Marine water sediment         Soil   | Lon<br>Lon<br>Lon  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 μg/l<br>0.057 μg/l<br>1.34 μg/l<br>0.71 mg/l<br>4.9 μg/kg s  | inhalation<br>dermal<br>oral<br>sediment dw<br>g sediment dw  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         PNEC         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releas         STP         Fresh water sediment         Marine water sediment  | Lon<br>Lon<br>Lon<br>Lon<br>Ises)  | e<br>g-term syster<br>g-term syster  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>1.34 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.64 µg/kg                              | inhalation<br>dermal<br>oral<br>sediment dw<br>g sediment dw  |                 | Value<br>1.05 mg/m <sup>3</sup><br>1.66 mg/kg bw/day<br>0.6 mg/kg bw/day |                           | Remark      |                              |
| Effect level (DNEL/DMEL)         DNEL         1,4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         PNEC         1,4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent released STP         Fresh water sediment         Marine water sediment         Marine water sediment         Soil         L.5 Control banding         If applicable and available it         Exposure controls  | Lon<br>Lon<br>Lon<br>Lon<br>Lon<br>will be lis   | e<br>g-term syster<br>g-term syster<br>g-term syster   | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>1.34 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.64 µg/kg                              | inhalation<br>dermal<br>oral<br>sediment dw<br>sediment dw<br>soil dw   |                 | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k                         |             |                              |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         DNEL         PNEC         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releat         STP         Fresh water sediment         Marine water sediment         Soil         L.5 Control banding         If applicable and available it         Exposure controls         e information in this section is  | Lon<br>Lon<br>Lon<br>Lon<br>sees)  | e<br>g-term syster<br>g-term syster<br>g-term syster<br>sted below.  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 μg/l<br>0.057 μg/l<br>1.34 μg/l<br>0.71 mg/l<br>4.9 μg/kg<br>0.49 μg/kg<br>0.64 μg/kg                | sediment dw<br>sediment dw<br>soil dw   | ailable, expo   | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k                         |             | Always u                     |
| Effect level (DNEL/DMEL)         DNEL         1,4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         DNEL         PNEC         1,4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releat         STP         Fresh water sediment         Marine water sediment         Soil         L.S Control banding         If applicable and available it         Exposure controls         e information in this section is         evant exposure scenarios that  | Lon<br>Lon<br>Lon<br>Lon<br>Lon<br>uses)   | e<br>g-term syster<br>g-term syster<br>g-term syster<br>sted below.  | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 μg/l<br>0.057 μg/l<br>1.34 μg/l<br>0.71 mg/l<br>4.9 μg/kg<br>0.49 μg/kg<br>0.64 μg/kg                | sediment dw<br>sediment dw<br>soil dw   | ailable, expo   | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k                         |             | . Always u                   |
| Effect level (DNEL/DMEL) DNEL 1.4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL DNEL DNEL PNEC 1.4-dihydroxybenzene Compartments Fresh water Marine water Fresh water (intermittent relea STP Fresh water sediment Marine water sediment Soil Soil Soil Soil Soil Soil Soil Soil   | Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;                           | e<br>g-term syster<br>g-term syster<br>g-term syster   | effects inh<br>mic effects<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.57 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.49 µg/kg<br>0.64 µg/kg               | sediment dw<br>soil dw<br>cable and av<br>d use.  |                 | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k<br>attached             | d in annex  | ·                            |
| Effect level (DNEL/DMEL)         DNEL         1,4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         DNEL         PNEC         1,4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releat         STP         Fresh water sediment         Marine water sediment         Soil         L.S Control banding         If applicable and available it         Exposure controls         e information in this section is         evant exposure scenarios that  | ises)<br>will be lise<br>correspondent<br>s/a generation<br>correspondent<br>s/heat. N | e<br>g-term syster<br>g-term syster<br>g-term syster<br>sted below.<br>al descriptic<br>ond to your<br>feasure the                                   | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>1.34 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg                | sediment dw<br>soil dw<br>cable and av<br>d use.  |                 | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k<br>attached             | d in annex  | ·                            |
| Effect level (DNEL/DMEL) DNEL 1.4-dihydroxybenzene Effect level (DNEL/DMEL) DNEL DNEL DNEL PNEC 1.4-dihydroxybenzene Compartments Fresh water Marine water Fresh water (intermittent relea STP Fresh water sediment Marine water sediment Soil5 Control banding If applicable and available it Exposure controls e information in this section is evant exposure scenarios that 2.1 Appropriate engineering cont Keep away from naked flame exhaust/ventilation or with re 2.2 Individual protection measure   | Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;                           | e<br>g-term syster<br>g-term syster<br>g-term syster<br>sted below.<br>al description<br>ond to your<br>feasure the<br>y protection<br>personal pro- | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg | sediment dw<br>sediment dw<br>sediment dw<br>sediment dw<br>soil dw<br>icable and av<br>d use.<br>ration in the a | ir regularly. ( | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k<br>attached             | d in annex  | ·                            |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         DNEL         2000         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releated STP         Fresh water sediment         Marine water sediment         Soil         L.S Control banding         If applicable and available it         Exposure controls         e information in this section is         evant exposure scenarios that         L.1 Appropriate engineering cont         Keep away from naked flame         exhaust/ventilation or with rest   | Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;                           | e<br>g-term syster<br>g-term syster<br>g-term syster<br>sted below.<br>al description<br>ond to your<br>feasure the<br>y protection<br>personal pro- | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg | sediment dw<br>sediment dw<br>sediment dw<br>sediment dw<br>soil dw<br>icable and av<br>d use.<br>ration in the a | ir regularly. ( | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k<br>attached             | d in annex  | ·                            |
| Effect level (DNEL/DMEL)         DNEL         1.4-dihydroxybenzene         Effect level (DNEL/DMEL)         DNEL         DNEL         DNEL         2000         1.4-dihydroxybenzene         Compartments         Fresh water         Marine water         Fresh water (intermittent releat         STP         Fresh water sediment         Marine water sediment         Soil         L.5 Control banding         If applicable and available it         Exposure controls         e information in this section is         evant exposure scenarios that         L1 Appropriate engineering cont         Keep away from naked flame         exhaust/ventilation or with re         L2 Individual protection measure         Observe normal hygiene stan | Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;<br>Lon;                           | e<br>g-term syster<br>g-term syster<br>g-term syster<br>sted below.<br>al description<br>ond to your<br>feasure the<br>y protection<br>personal pro- | effects inh<br>mic effects<br>mic effects<br>mic effects<br>0.57 µg/l<br>0.057 µg/l<br>0.71 mg/l<br>4.9 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg<br>0.64 µg/kg | sediment dw<br>sediment dw<br>sediment dw<br>sediment dw<br>soil dw<br>icable and av<br>d use.<br>ration in the a | ir regularly. ( | Value 1.05 mg/m <sup>3</sup> 1.66 mg/kg bw/day 0.6 mg/kg bw/day          | k<br>attached<br>the open | d in annex  | ·                            |

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

| b | <u>b) Hand protection:</u><br>Protective gloves against chemicals (EN 374). |                               |           |                  |        |  |  |  |  |
|---|---|-------------------------------|-----------|------------------|--------|--|--|--|--|
|   |   | Measured<br>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/m<sup>3</sup>

# 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<br>423 | > 5000 mg/kg bw |               | Rat (male)    | Experimental value |        |
| Skin              | LD50      | Equivalent to OECD<br>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<br>determination | Remark |
|-------------------|------------------------------|---------------------------|---------------|------------------|--------|------------------------|--------|
| Еуе               | Irritating                   | Equivalent to<br>OECD 405 | 72 h          | 24; 48; 72 hours | Rabbit | Experimental<br>value  |        |
| Skin              | Slightly irritating          | Equivalent to<br>OECD 404 | 24 h          | 24; 72 hours     | Rabbit | Experimental<br>value  |        |
| Skin              | Irritating;<br>category 2    |                           |               |                  |        | Annex VI               |        |
| Inhalation        | Irritating;<br>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 | <br>Value<br>determination | Remark |
|-------------------|--------------------------------------|--------|---------------|------------|----------------------------|--------|
| ,                 | Serious eye<br>damage;<br>category 1 |        |               |            | Annex VI                   |        |
| Skin              | Not irritating                       |        | 24 h          | 24 hours   | Weight of<br>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                          | <br>Observation time<br>point | Species                       | Value determination | Remark |
|----|------------------|--------|---------------------------------|-------------------------------|-------------------------------|---------------------|--------|
| Sk | kin              | 0      | Guinea pig<br>maximisation test | •                             | Guinea pig (male<br>/ 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<br>determination |
| Oral (stomach<br>tube) | NOAEL     | Equivalent to<br>OECD 453 | 25 mg/kg<br>bw/day        |       | No effect | 65 weeks (5 days /<br>week) - 103 weeks (5<br>days / week) | Rat (male)             | Experimental<br>value  |
| Dermal                 | NOAEL     | Equivalent to<br>OECD 411 | 73.9 mg/l -<br>109.6 mg/l |       | No effect | 13 weeks (6h / day, 5<br>days / week)                      | Rat (male /<br>female) | Experimental<br>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<br>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<br>483 |                             | Mouse (male)   |       | Experimental value  |
| Negative (Oral (stomach tube)) | Equivalent to OECD<br>478 | 10 weeks (5 days /<br>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<br>OECD 453 | 50 mg/kg<br>bw/day   | 65 weeks (5 days /<br>week) - 103 weeks<br>(5 days / week) | Rat (male)   | Tumor<br>formation                                    | Kidney | Experimental<br>value |
| Oral       | Dose level | Equivalent to<br>OECD 453 | ≥ 25 mg/kg<br>bw/day | 65 weeks (5 days /<br>week) - 103 weeks<br>(5 days / week) | Rat (female) | Change in the<br>haemogramme/<br>blood<br>composition | Blood  | Experimental<br>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<br>determination |
|---|---------------|---------------------------|---------------------|------------------|------------------------|-----------|--------|------------------------|
| Developmental toxicity<br>(Oral (stomach tube)) | NOEL          | Equivalent to<br>OECD 414 | 100 mg/kg<br>bw/day | 10 day(s)        | Rat                    | No effect | Foetus | Experimental<br>value  |
| Maternal toxicity (Oral<br>(stomach tube))      |               | Equivalent to<br>OECD 414 | 100 mg/kg<br>bw/day | 10 day(s)        | Rat (female)           | No effect |        | Experimental<br>value  |
| Effects on fertility (Oral (stomach tube))      | NOAEL (F1/F2) | EPA OTS<br>798.4700       | 150 mg/kg<br>bw/day | 40 weeks (daily) | Rat (male /<br>female) | No effect |        | Experimental<br>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<br>water | Value determination                             |
|---|-----------|---------------------------|------------|----------|-------------------------------------|----------------------------|---------------------|---|
| Acute toxicity fishes                   | LC50      | Equivalent to<br>OECD 203 | 0.638 mg/l | 96 h     | Oncorhynchus<br>mykiss              | Flow-<br>through<br>system | Fresh water         | Experimental value                              |
| Acute toxicity crustacea                | EC50      | Equivalent to<br>OECD 202 | 0.061 mg/l | 48 h     | Daphnia magna                       | Semi-static<br>system      | Fresh water         | Experimental value;<br>GLP                      |
| Toxicity algae and other aquatic plants | ErC50     | Equivalent to<br>OECD 201 | 0.33 mg/l  | 72 h     | Pseudokirchneri<br>ella subcapitata | Static<br>system           | Fresh water         | Experimental value;<br>GLP                      |
| Toxicity aquatic micro-<br>organisms    | IC50      |                           | 71 mg/l    | 2 h      | Activated sludge                    | Static<br>system           | Fresh water         | Experimental value;<br>Nominal<br>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 <sup>3</sup> | 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                           | <ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different<br/>phases, for example in ornamental lamps and ashtrays,</li> </ul> </li> </ol> |
|  |  |

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

| AL-FIX GEL  |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| Regulation (EC) No 1272/2008:<br>(a) hazard classes 2.1 to 2.4, 2.6 and 2<br>types A and B, 2.9, 2.10, 2.12, 2.13 ca<br>1 and 2, 2.14 categories 1 and 2, 2.15<br>to F;<br>(b) hazard classes 3.1 to 3.6, 3.7 adve<br>effects on sexual function and fertility<br>development, 3.8 effects other than r<br>effects, 3.9 and 3.10;<br>(c) hazard class 4.1;<br>(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<br>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><br><u>AL-FIX GEL</u><br>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