

	<b>SAFETY DATA SHEET</b> prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name:	AF Gel Fix
Chemical name:	-
EC No:	-
CAS No:	-
Index No:	-
REACH No:	-
UFI No:	V300-F0N5-M00J-GFS3

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

#### 1.2.1. Relevant identified uses

Adhesive for attaching small coral pieces in marine fishkeeping.

#### 1.2.2. Uses advised against

None

### 1.3. Details of the supplier of the safety data sheet

Aquaforest sp. z o.o. sp. k.  
 ul. Starowiejska 18  
 32-800 Brzesko, POLAND  
 info@aquaforest.eu  
 Tel.: +48 14 691 79 79

### 1.4. Emergency telephone number

Emergency number: 112  
 Manufacturer number: +48 14 691 79 79 (8.00 am-4.00 pm)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**According to the Regulation (EC) No 1272/2008:**

Product is classified as hazardous

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335	May cause respiratory irritation.

Physical hazards:	Strong adhesive, bonds skin and eyes in seconds.
Health hazards:	Causes skin and eye irritation and may cause respiratory irritation
Environmental hazards:	No hazard


### 2.2. Label elements

**According to the Regulation (WE) 1272/2008:**

**Pictograms:**



**Signal word:**  
 WARNING

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**Hazard statements:**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statement:**

P101 If medical advice is needed, have product container or label at hand.  
 P261 Avoid breathing vapours.  
 P264 Wash hands thoroughly after handling.  
 P280 Wear protective gloves.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302 + P352 IF ON SKIN: Wash with plenty of water with soap.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P501 Dispose of contents/container in accordance with national / international regulations

**Additional labelling requirements.**

Contains: ethyl 2-cyanoacrylate.  
 EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

**Labelling of packing containing < 125 ml:**

See Section 16

**2.3. Other hazards**

Product does not meet PBT or vPvB criteria according to XIII of REACH regulation.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**
**3.1. Substances**

Not applicable

**3.2. Mixtures**

Product is a mixture

Name	Identifiers		Concentration [% w/w]	CLP Classification
ethyl 2-cyanoacrylate *	CAS:	7085-85-0	98 - >100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3; H335: C ≥ 10 %
	EC:	230-391-5		
	Index No:	07-236-00-9		
	Reg. No:	01-2119527766-29-XXXX		


\* substance with possible TLV in working environment  
 Full text of H phrases is provided in Section 16.

**SECTION 4: FIRST AID MEASURES**
**4.1. Description of first aid measures**
**Routes of exposure:**

Respiratory, digestive, skin contact, eye contact.

**Contamination of the skin**

Take off contaminated clothing. Clean contaminated skin, wash with plenty of water and then with mild soap

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and water. If necessary, consult a dermatologist.

### Contamination of the eyes

Remove contact lenses. Flush contaminated eyes with lukewarm water for 15 minutes, holding eyelids. If necessary, provide ophthalmologist assistance.

### Inhalation

Place the injured person lying down. If necessary, provide medical assistance.

### Ingestion

Rinse mouth. Give 1-2 glasses of water to drink. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Provide calm, comfortable position and warmth. If necessary, provide medical assistance.

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

### Acute symptoms

Inhalation: exposure to vapours causes respiratory irritation: cough  
 Skin contamination: sticking and local irritation, redness  
 Eye contamination: conjunctiva and corneal sticking and irritation, thermal damage due to the heat generated by polymerization  
 Ingestion: sticking and irritation of mucous membranes

**Delayed symptoms** – no data

**Effects of exposure** – No data

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

Ensure adequate measures at the workplace to provide pre-medical assistance.

**Information for the rescuer:** use standard precautionary measures

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide, chemical powders, foams, water mist.

#### Unsuitable extinguishing media:

Do not use compact water jets on the surface of the burning product. This results in the spreading of the burning product and thus the fire spread.

### 5.2. Special hazards arising from the substance or mixture

The product is not flammable, but when burning, caused by mixing with flammable substances, irritating organic vapours and prussic acid may be formed.

#### Explosive mixtures:

Not applicable


### 5.3. Advice for firefighters

#### Fire extinguishing:

Use standard chemical fire-fighting methods. Cool containers exposed to high temperatures with water and remove from the danger area if possible. Treat released vapours with water mist.

#### Protective gear:

Clothes resistant to high temperatures. Independent breathing apparatus.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Use appropriate protective equipment before working on damaged containers or released product. Dismiss people without personal protection. Avoid breathing vapours / mist / gas. Ensure adequate ventilation. In the event of unintentional release of a larger quantity of the product into the environment, apply procedures informing residents in the area and the authorities and order to leave the area of cleaning activities by bystanders.

For emergency responders:

Follow instructions, use appropriate personal protection measures, See Section 8. Inform about accident, call appropriate services.

### 6.2. Environmental precautions

Avoid environmental pollution. Secure the sumps. In the event of serious pollution of a watercourse, sewage system or soil, inform the appropriate administrative and control authorities and rescue organizations.

### 6.3. Methods and material for containment and cleaning up

Protect damaged packaging. Pour embankments along the path of the moving product. Collect the discarded product using sorbent products (soil, dry sand, diatomite, vermiculite) in waste containers. Store properly closed and labelled containers until disposal.

### 6.4. Reference to other sections

Personal protective equipment – section 8  
Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Recommendations when working with the product:**

Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from sources of ignition - No smoking. Prevent accumulation of electrostatic charges.

**Apply general industrial hygiene regulations.**

Do not eat, drink or smoke when using this product. Replace contaminated clothing. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks at work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage rooms must be ventilated. Keep containers tightly closed. Keep only in the original container. Store in a cool and dry place. Protect from humidity. Protect against sunlight and heat sources. Handle opened containers carefully to avoid spilling. Storage temperature range: 5 - 25 centigrade. Warehouse area has to be restricted for smoking and using open flame and sparking tools. Do not store near alkaline substances, strong acids. Familiarize yourself with the content of the safety data sheet. Do not use until all safety precautions have been read and understood.


### 7.3. Specific end use(s)

No information about uses other than those mentioned in subsection 1.2.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

**Occupational Exposure Limit Value:**

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There might be exposure standards allocated to:  
ethyl 2-cyanoacrylate (CAS: 7085-85-0) – mandatory check the relevant national regulation

**DNELs (Derived No Effect Levels) available for mixture components:**

ethyl 2-cyanoacrylate (CAS: 7085-85-0)								
Exposure route	WORKERS				GENERAL POPULATION			
	Systemic Effects		Local Effects		Systemic Effects		Local Effects	
	Long-term	Acute	Long-term	Acute	Long-term	Acute	Long-term	Acute
Inhalation	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>	9.25 mg/m <sup>3</sup>
Dermal	-	-	-	-	-	-	-	-
Oral	-	-	-	-	-	-	-	-
Eye	-	-	-	-	-	-	-	-

**8.2. Exposure controls**

**Appropriate engineering controls**

Storage rooms must be efficiently ventilated to keep the concentration of vapors in the air below their permissible values.

**Individual protection measures**

**Respiratory protection**

Under normal operating conditions is not required. In the event of a hazard arising from exceeding the permissible vapor levels of the mixture in the air (e.g. failure of ventilation) use respiratory protection universal masks with a filter.

**Hand protection:**

Wear chemical resistant protective gloves as needed. It is recommended to regularly change gloves and replace them immediately in the event of signs of wear, damage (tearing, perforation) or change in appearance (colour, elasticity, shape). It is recommended to use a protective cream for exposed parts of the body. Glove material should be selected considering breakthrough time, permeation rate and degradation. The exact breakthrough time of the gloves material should be determined by the manufacturer.

**Eye and face protection**

If necessary, use full safety goggles. Provide eye wash bottles with clean water or saline in the workplace.

**Skin protection:**

Complete protective clothing against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

**Protective equipment standards:**

EN 140:2001 Respiratory protective devices – Half masks and quarter masks – Requirements, testing, marking.

EN 143:2004 Respiratory protective devices – Particle filters – Requirements, testing, marking.


EN 149+A1:2010 Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking.

EN 14387+A1:2010 Respiratory protective devices – Gas filter(s) and combined filter(s) – Requirements, testing, marking.

EN 374-1:2017-01 Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks.

EN 374-2:2015-04 Protective gloves against dangerous chemicals and micro-organisms – Part 2: Determination of penetration resistance.

EN 16523-1+A1:2018-11 Determination of material resistance to permeation by chemicals – Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact.

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EN 166:2005 Personal eye protection. Specifications.  
 EN 14605+A1:2010 Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]).  
 EN ISO 20344:2012 Personal protective equipment – Test methods for footwear

### Environmental exposure controls

Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

### PNECs (Predicted No Effect Concentrations) for mixture components:

ethyl 2-cyanoacrylate (CAS: 7085-85-0)	
<b>Environment compartment</b>	<b>PNEC</b>
Freshwater:	No data available
Intermittent releases (freshwater):	No data available
Marine water:	No data available
Intermittent releases (marine water):	No data available
Sewage treatment plant:	No data available
Sediment (freshwater):	No data available
Sediment (marine water):	No data available
Air:	No data available
Soil:	No data available
Hazard for Predators:	No data available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties


<b>Physical state</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Pungent, characteristic
<b>Melting point/freezing point</b>	No data
<b>Boiling point or initial boiling point and boiling range</b>	>100°C
<b>Flammability</b>	Not applicable
<b>Lower and upper explosion limit</b>	Not applicable
<b>Flash point</b>	90°C
<b>Auto-ignition temperature</b>	No data
<b>Decomposition temperature</b>	No data
<b>pH</b>	No data
<b>Kinematic viscosity</b>	3 – 115 000 mPa·s (25°C) (dynamic viscosity)
<b>Solubility</b>	Insoluble in water
<b>Partition coefficient n-octanol/water (log value)</b>	Not applicable
<b>Vapour pressure</b>	<0,5 mmHg (25°C)
<b>Density and/or relative density</b>	1.1 g/cm <sup>3</sup>
<b>Relative vapour density</b>	Not applicable
<b>Particle characteristics</b>	Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

No additional data regarding physical hazards.

#### Other safety characteristics

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No additional data.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Very reactive product, readily polymerizes, especially in the presence of humidity.

### 10.2. Chemical stability

The product is chemically stable when properly stored.

### 10.3. Possibility of hazardous reactions

Not known

### 10.4. Conditions to avoid

Avoid contact with high temperature, high humidity. Protect against sunlight and sources of ignition.

### 10.5. Incompatible materials

Strong bases. Softens and dissolves some plastics.

### 10.6. Hazardous decomposition products

Do not occur when used as intended.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

Product was not tested for toxicological properties. Hazard classification was conducted according to regulation 1272/2008 by calculation methods based on hazardous ingredients content.

#### Acute toxicity:

Acute Oral Toxicity: product does not meet criteria for classification,  $ATE_{mix} > 2000$  mg/kg

Acute Dermal Toxicity: product does not meet criteria for classification,  $ATE_{mix} > 2000$  mg/kg

Acute Inhalation Toxicity: product does not meet criteria for classification,  $ATE_{mix} > 5$  mg/l

#### Skin corrosion/irritation:

Product classified as skin irritant

#### Serious eye damage/irritation:

Product classified as eye irritant

#### Respiratory or skin sensitisation:

Product does not meet criteria for classification

#### Germ cell mutagenicity:

Product does not contain any compounds with germ cell mutagenicity hazard

#### Carcinogenicity:

Product does not contain any compounds with carcinogenic hazard

#### Reproductive toxicity:

Product does not contain any compounds with reprotoxic hazard

#### STOT-single exposure:

Product may cause respiratory irritation.

#### STOT-repeated exposure:


Product does not meet criteria for classification

#### Aspiration hazard:

Product does not meet criteria for classification

### 11.2. Information on other hazards

No data

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product was not tested for environment hazards. According to regulation 1272/2008 product is not classified as hazardous to environment.

Product does not met criteria for classification

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

Based on data available product in not PBT/vPvB.

### 12.6. Endocrine disrupting properties

No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Waste from residues/unused products:

Used packaging after cleaning can be reused. Recycling or incineration is preferred. Do not store in municipal landfills. Only completely emptied packages should be dispose. The product during professional use, remove as hazardous waste; deliver to an authorized enterprise.

The waste codes must be assigned individually at the place and depending of circumstances of waste development

#### Disposing of the packaging:

Packaging of the product is not a hazardous waste packaging. Recycle or dispose is accordance with relevant regulations.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

## SECTION 14: TRANSPORT INFORMATION


### 14.1. UN number or ID number

ADR	IMDG Code	IATA DGR
Not regulated	Not regulated	3334

### 14.2. UN proper shipping name

ADR	IMDG Code	IATA DGR
-	-	AVIATION REGULATED LIQUID, N.O.S. (ETHYL-2- CYANOACRYLATE)

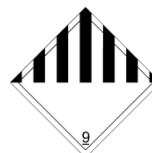


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<b>14.3. Transport hazard class(es)</b>
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ADR	IMDG Code	IATA DGR
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-	-	9
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<b>14.4. Packing group</b>
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ADR	IMDG Code	IATA DGR
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-	-	III
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<b>14.5. Environmental hazards</b>
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ADR	IMDG Code	IATA DGR
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-	-	No
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<b>14.6. Special precautions for user</b>
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ADR	IMDG Code	IATA DGR
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-	-	Packing instructions: Limited quantity: Y964 Passenger and Cargo Aircraft: 964 Cargo Aircraft Only PI: 964
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<b>14.7. Maritime transport in bulk according to IMO instruments</b>
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<b>SECTION 15: REGULATORY INFORMATION</b>
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<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
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Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives


Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

European agreement concerning international road transport of dangerous products (ADR)

<b>15.2. Chemical safety assessment</b>
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Chemical safety assessment was not conducted for the product.

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## SECTION 16: OTHER INFORMATION

Explanation of abbreviations and acronyms used in safety data sheet

Skin Irrit. 2, H315 Causes skin irritation.  
 Eye Irrit. 2, H319 Causes serious eye irritation.  
 STOT SE 3, H335 May cause respiratory irritation.

**ADR** European Agreement concerning the International Carriage of Dangerous Goods by Road under framework Directive 94/55/EC, as amended

**ATE** Acute Toxicity Estimate: acute toxicity values are expressed as (approximate) LD50 (oral, dermal) or LC50 (inhalation) values or as ATEs.

**CAS** Chemical Abstracts Service

**CPR** Cardio-pulmonary resuscitation

**DNEL** derived no-effect level

**EC number** unique seven-digit identifier assigned to substances for regulatory purposes withing European Inventory of Existing Commercial Chemical Substances (EINECS)

**EC50** median effective concentration

**EINECS** European Inventory of Existing Commercial Chemical Substances

**GHS** (United Nations) Globally Harmonised System of Classification and Labelling of Chemicals: it defines the criteria internationally agreed by the United Nation Economic and Social Council (UN ECOSOC) for the classification and labelling of hazardous substances and mixtures

**ICAO** International Civil Aviation Organisation, refers to Annex 18 to the Convention on International Civil Aviation The Safe Transport of Dangerous Goods by Air

**IMDG** International Maritime Dangerous Goods Code for the transport of dangerous goods by sea

**IUPAC** International Union of Pure and Applied Chemistry

**LOEC** Lowest Observed Effect Concentration

**LD50** Lethal Dose; dose at which 50% of the animals will be expected to die.

**LC50** Lethal Concentration; standard measure of the toxicity of the surrounding medium that will kill half of the sample population of a specific test-animal in a specified period through exposure via inhalation

**NOEC** No Observed Effect Concentration

**M factor** Multiplying factor

**NICNAS** (Australia) National Industrial Chemicals Notification and Assessment Scheme

**NIOSH** (United States) National Institute of Occupational Safety and Health

**OECD** Organisation for Economic Cooperation and Development

**OSHA** (United States) Occupational Safety and Health Administration

**PBT** Persistent, bioaccumulative and toxic

**PNEC** Predicted No Effect Concentration

**(Q)SAR** (Quantitative) Structure-Activity Relationships

**RTGD** (United Nations) Recommendations on the Transport of Dangerous Goods

**RTECS** Registry of Toxic Effects of Chemical Substances

**SVHC** Substance of Very High Concern

**Toxline** Toxicology Literature Online database

**TOXNET** Toxicology Data Network

**UFI** Unique Formula Identifier


**US EPA** United States Environmental Protection Agency

**vPvB** very Persistent and very Bioaccumulative

This SDS was prepared in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of the product was based on the content of ingredients and according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008.

**Labelling of packing containing < 125 ml:**

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#### Pictograms



#### Signal Word:

WARNING

#### Hazard phrases:

H335 May cause respiratory irritation.

#### Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.  
 P261 Avoid breathing vapours.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P501 Dispose of contents/container in accordance with national / international regulations

#### Additional labelling:

Contains: ethyl 2-cyanoacrylate.  
 EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

#### Training

Before handling with the product, the user should be familiar with the principles of health and safety regarding the handling of chemicals, and in particular undergo appropriate workplace training.

#### References to key literature and data sources

The safety data sheet for this product has been created on the basis of a safety data sheets of product components, literature data, online databases and possessed knowledge and experience, taking into account the currently applicable to actual legislation.

#### Recommendation and restriction of use:

Use according to label instructions.

#### Changes from the previous version of the safety data sheet:

Version 1.2 – adaptation to requirements of regulation 2020/878, minor editorial changes

The above information is based on currently available data characterizing the product as well as the experience and knowledge possessed by the manufacturer in this topic. It does not constitute a quality description of the product or promise of specific properties. It should be treated as an aid for safe handling during transport, storage and use of the product. This does not release the user from liability for incorrect use of the above information and from compliance with all legal regulations in this area.

END OF SAFETY DATA SHEET