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1. Identification of substance, company:

- 1.1. Identification of substance: **POLYFIX-R - R 34703**
 1.2. Application of the substance/the preparation: Quick liquid adhesive
 1.3. Identification of manufacturer/Supplier:
 RETECH, s.r.o.
 Vackova 1541/4
 150 00 Praha-5 Stodůlky
 Telephone/Fax: +420 327 596 128, +420 596 428
 Information: hana.mekotova@retech.cz
 1.4. Telephone number for RETECH Suchdol 212, Suchdol u Kutné Hory
 extraordinary situations: Tel.+420 327 596 128 (7.30-16.00 hour)
 Toxicology information number, Na bojišti 1, 128 08 PRAHA 2
 Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Hazard identification:

The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- 2.1. Hazard designation:

Xi



Irritant

- 2.2. Information pertaining to particular dangers for man and environment:
 Irritating to eyes, respiratory system and skin.
- 2.3. Additional information:
 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
 The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3. Composition/information on ingredients:

- 3.1. Description:
 Mixture of the substances listed below with harmless additions.
- 3.2. Dangerous components:

Chemical name	Contents(%)	Number CAS	Number ES	Cautionary symbol	R sentences
Ethyl-2-cyanoacrylate	86-99,5	7085-85-0	230-391-5	Xi	R 36/37/38

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First aid measures:

- 4.1. After inhalation: Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention.
- 4.2. After skin contact: Do not pull bonded skin apart. Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. Any bonded skin should be gently peeled apart with the aid of a blunt object, preferably after soaking warm, soapy water.
- 4.3. After eye contact: Cyanoacrylates bond eyelids in seconds. Irrigate thoroughly with water for at least 15 minutes. If the eyelid is bonded closed, do not force open. Cover with wet pad

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- soaked in warm water. Get medical attention. Keep eye covered with wet pad until debonding is complete, usually 1-3 days. (Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids debonding.
- 4.4. After swallowing: Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Saliva will separate the solidified product from the mouth over a period of hours. Seek medical attention.
- 4.5. General information: -

5. Fire fighting measures:

- 5.1. Suitable extinguishing agents: Alcohol resistant foam, dry powder, carbon dioxide, water spray/fog.
- 5.2. For safety reasons unsuitable extinguishing agents: Direct water jets.
- 5.3. Protective equipment: Wear protecting clothes and oxygen-mask; fight the fire from a protected place.
- 5.4. Special hazards caused by the material, its products of combustion or resulting gases: Possible risk of explosion. Toxic fumes are produced in fire – CO, CO₂, nitrogen oxides).

6. Accidental release measures:

- 6.1. Person-related safety precautions: Remove all sources of ignition. Ventilate area. Use approved self-contained breathing apertures. Use barriers to prevent unauthorized entry into contaminated areas. Do not allow spill to enter drains and watercourses.
- 6.2. Measures for environmental protection: Do not allow spills or water run-off to enter drains and watercourses.
- 6.3. Measures for cleaning/collecting: Absorb in inert material such as sand or absorbent granules (do not use cloths) or polymerize slowly with water (10:1, adhesive : water) and then scrape up. Dispose in accordance with local regulations.
- 6.4. Additional information: -

7. Handling and storage:

- 7.1. Handling:
 Information for safe handling: Avoid skin and eye contact. Do not breath vapor – ensure adequate ventilation and/or use local extraction.
- Information about protection against explosions and fires: -
- 7.2. Storage:
 Requirements to be met by storerooms and containers: Store in tightly closed, labeled containers. Store in a cool, dry, well-ventilated area out of direct sunlight. Refrigerated storage (2-8°C) is recommended for optimum shelf-life. Keep away from high temperatures and sources of ignition. Keep away from oxidizing agents and from strong acids/alkalis.
- Information about storage in one common storage facility: -
- Further information about storage conditions: -

8. Exposure controls and personal protection:

- 8.1. Validate parameter:
 Components with limit values that require monitoring at the workplace:
 MAC-values:
 Ethyl cyanoacrylate is 0.3ppm=1.5mg/cm³ (STEL 15min.)
 Additional information: The lists that were valid during the compilation were as basis.
- 8.2. Personal protective equipment:
 Eye protection: Safety glasses
 Breathing equipment: Ensure good ventilation.
 Protection of hands: PVC-hand gloves

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8.3.	Protection of skin: Protective working suit General protective and hygienic measures: The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hand after each work period and before eating.
9.	Physical and chemical properties:
	Form: Liquid
	Colour: Colourless
	Odour: Sharp, pungent
9.1.	pH: 6-7
	Melting point/Melting range: - 30 °C
	Boiling point/Boiling range: >150°C (55°C at 0.045 mmHg)
	Flash point: >85°C
	Inflammability (strength, gas form) Non-inflammability.
	Self-inflammability: >400°C
	Danger of explosion: Product is not explosive.
	Explosion limits: lower (% Vol.): -
	upper (% Vol.): -
	Vapor pressure (at 25°C): <0,04 mm Hg
	Density at 20 °C 1,05-1,2 g/cm ³
	Solubility in/Miscibility with - water Insoluble. Polymerizes rapidly with water. -solvents Miscible in some organic solvents, e.g. acetone
	Viscosity: Various – from 3cPs to gel(90,000cPs)
9.2.	Other information: -
10.	Stability and reactivity:
10.1.	Thermal decomposition / conditions to be avoided: High temperatures, moisture and direct sunlight. Hazardous exothermic polymerization can occur if exposed to moisture.
10.2	Dangerous reactions: Do not allow to contact with strong oxidizing agents, water, alkalis, amines, alcohols, free-radical initiators. Will polymerize rapidly in contact with these agents.
10.3.	Dangerous decomposition products: Combustion/exothermic polymerization will generate oxides of carbon, acrid smoke and irritating fumes.
11.	Toxicological information:
11.1.	Acute toxicity:
	Oral: >3,000mg/kg - LD50(rat)
	Inhalation: >Expected to be low – sees section 8 for OES info.
	Skin: >3,000mg/kg – LD50(rab)
11.2.	Primary irritant effect:
	on the skin: Irritation effects.
	on the eye: Irritation effects.
	Sensitization: No sensitizing effects known.
	Additional toxicological information: Fumes can irritate the respiratory system.
12.	Ecological information:
	Water hazard class 1(Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
13.	Disposal considerations:
13.1.	Product: Dispose in safe manner in accordance with local/national regulation.
13.2.	Uncleaned packaging: Disposal must be made according to official regulations.

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14. Transport information:

- 14.1. Land transport:
ADR/RID-GGVs/E class: 9
Number UN: 3334
Packaging group: -
Description of goods: Liquid, n.o.s. (cyanoacrylate ester)
- 14.2. Maritime transport:
IMDG-class: 9
Number UN: 3334
Packaging group: -
Proper shipping name: Liquid, n.o.s. (cyanoacrylate ester)
- 14.3. Air transport:
ICAO / IATA -class: 9
UN/ID number: 3334
Packaging group: -
Proper shipping name: Liquid, n.o.s. (cyanoacrylate ester)

15. Regulatory information:

- 15.1. Labeling according to law line:
The product has been labeled in accordance with EC Directives / relevant national laws.
Danger of determining components and mark to labeling:
7085-85-0 Ethyl-2-cyanoacrylate
Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Labeling hazardousness:



Xi-Irritant

Numbers and word reading associated hazard R-sentences :
R 36/37/38 Irritating to eyes, respiratory system and skin.

Numbers and word reading associated security S-sentences:
S 2 Keep out of reach of children.
S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37 Wear suitable protective clothing and gloves.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 56 Dispose of this material and its container at hazardous or special waste collection point.

- 15.2. Used legislation:

European Regulation (EC) No 1907/2006 - REACH
Regulation (EC) No 648/2004 of the European Parliament and of the council of 31 March 2004 on detergents

16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R-phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.