

Safety Data Sheet According to Regulation (EC) No. 1907/2006**1. Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product Identifier**

Cyanoacrylate red
Article Number: KL2101

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

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1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: R&G Faserverbundwerkstoffe GmbH
Composite Technology
Im Meißel 7 – 13
71111 Waldenbuch

Post office box 1145
Germany
Tel.: +49 7157 5304-60
Fax: +49 7157 5304-70
Email: info@r-g.de

Supplier: Company FIOR & GENTZ Gesellschaft für Entwicklung und
Vertrieb von orthopädiotechnischen Systemen mbH
Dorette-von-Stern-Straße 5
21337 Lüneburg
Germany

Phone: +49 4131 24445-0
Fax: +49 4131 24445-57
Email: info@fior-gentz.de

1.4 Emergency Telephone Number

Poison Information Centre Freiburg
Tel: +49 761 19240

2. Hazards Identification**2.1 Classification of the Substance or Mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: Xi – Irritant
R-phrases: Irritating to eyes, respiratory system and skin.

Classification according to Regulation (EC) No. 1272/2008 [CLP]**Hazard Categories:**

Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

2.2 Label Elements**Hazardous Components which Must be Listed on the Label:**

Ethyl 2-cyanoacrylate

Signal word: Warning
Pictograms: GHS07

**Hazard Statements:**

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

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special Labelling of Certain Mixtures:

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds.
Keep out of the reach of children.

Additional Advice on Labelling:

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

3. Composition/Information on Ingredients**3.2 Mixtures****Hazardous Components:**

EC No. CAS no. Index no.	Chemical Name classification according to Directive 67/548/EEC classification according to Regulation (EC) No. 1272/2008 [CLP]	Quantity
REACH no.		
230-391-5 7085-85-0 607-236-00-9	Ethyl 2-cyanoacrylate Xi - Irritant R36/37/38 eye irrit. 2, STOT SE 3, skin irrit. 2; H319 H335 H315	80 - < 100%

Full text of R-, H- and EUH-phrases: see section 16.

4. First Aid Measures

4.1 Description of First Aid Measures

General Information:	Change contaminated clothing.
After Inhalation:	Provide fresh air. Consult a doctor when complaints persist.
After Contact with Skin:	After contact with skin, wash immediately with plenty of water and soap. If skin becomes irritated, seek medical treatment.
After Contact with Eyes:	After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. Subsequently consult an ophthalmologist.
After Ingestion:	Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Consult physician.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Provide symptomatic treatment.

5. Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: carbon dioxide (CO₂), extinguishing powder, sand, water spray

Unsuitable Extinguishing Media: high power water jet

5.2 Special Hazards Arising from the Substance or Mixture

carbon monoxide
danger of formation of toxic pyrolysis products

5.3 Advice for Firefighters

In case of fire: wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional Information:

Immediately move undamaged cans out of the danger area, and if necessary cool with water. Danger of bursting! Contaminated firefighting water must not get into the sewerage network.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Provide adequate ventilation. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Special skid risk by leaking/spilling product.

6.2 Environmental Precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and Material for Containment and Cleaning Up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Dispose of contaminated material as § 13 waste.

7. Handling and Storage

7.1 Precautions for Safe Handling

Advice on Safe Handling: Use only in well-ventilated areas. Avoid spilling or spraying in enclosed areas.

When processing, highly volatile and flammable constituents are released. Keep away from sources of ignition - no smoking.

Do not eat, drink or smoke when using this product. Clean skin thoroughly after work and before breaks. Preventive skin protection by use of hand protection products is recommended. Contaminated work clothing should not be allowed out of the workplace. Change contaminated clothing.

Advice on Protection against Fire and Explosion: Keep away from sources of ignition - no smoking.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Requirements for Storage Rooms and Vessels: Protect against the effects of heat and direct sunlight. Keep in a cool, well-ventilated place. Keep receptacles tightly sealed. Provide a solvent-resistant and sealed floor. Only use containers specifically approved for the substance/product.

Advice on Storage Compatibility: Keep away from oxidising agents.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits (EH40):

CAS No.	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7085-85-0	ethyl	-	-		TWA (8h)	WEL
	cyanoacrylate	0.3	1.5		STEL (15min)	WEL

8.2 Exposure Controls

Appropriate Engineering Controls:	Ventilate adequately storage and work rooms.
Protective and Hygiene Measures:	Wash hands before breaks and after work. Do not smoke, eat or drink during work.
Eye/Face Protection:	tightly sealed safety glasses (EN 166)
Hand Protection:	Wear protective gloves (EN 374) > 120min. Protect skin by using skin protective cream.
Skin Protection:	Wear protective clothing.
Respiratory Protection:	In the event of long or excessive effects: use a gas mask with type A filter.

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State:	liquid
Colour:	colourless
Odour:	pungent

Test Method

Changes in the Physical State

Initial Boiling Point and Boiling Range:	185°C
Flash Point:	85°C

Auto-Ignition Temperature

Solid:	490°C
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Density (at 20°C):	1.04g/cm ³
Water Solubility:	insoluble

9.2 Other Information

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10. Stability and Reactivity

10.2 Chemical Stability

Stable under the specified storage conditions.

10.3 Possibility of Hazardous Reactions

water; amines; alcohols; alkalis (alkalis); oxidizing agents, strong

10.4 Conditions to Avoid

Protect from heat/overheating.

10.6 Hazardous Decomposition Products

gas/vapours, irritant

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

none known

CAS No.	Chemical Name	Exposure Routes	Method	Dose	Species	Source
7085-85-0	ethyl 2-cyanoacrylate	oral	LD50	> 5000 mg/kg	rat	OECD 401
		dermal	LD50	> 2000 mg/kg	rabbit	OECD 402

Practical Experience

Observations Relevant to Classification:

none known

Further Information:

The classification was undertaken in accordance with the method of calculation governed by the preparation regulations (1999/45/EC).

12. Ecological Information

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13. Disposal Considerations

13.1 Waste Treatment Methods

Advice on Disposal:

Dispose of as hazardous waste.

Waste Disposal Number of Used Product:

080409
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances.
Classified as hazardous waste.

Contaminated Packaging:

Uncontaminated packaging can be recycled. Non-cleanable packaging must be disposed of like the substance.

14. Transport Information**Land Transport (ADR/RID)****14.2 UN Proper Shipping Name**

No dangerous good in sense of these transport regulations.

Inland Waterways Transport (ADN)**14.2 UN Proper Shipping Name**

No dangerous good in sense of these transport regulations.

Marine Transport (IMDG)**14.2 UN Proper Shipping Name**

No dangerous good in sense of these transport regulations.

Air Transport (ICAO)**14.1 UN Number**

UN 3334

14.2 UN Proper Shipping Name

air transport, regulated, liquids, n.o.s. (Cyanoacrylates) (only for more than 0.5l)

14.3 Transport Hazard Class(es)

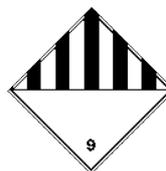
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14.4 Packing Group

III

hazard label:

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special provisions:	A27
limited quantity passenger:	30kg G
IATA-packing instructions - passenger:	964
IATA-max. quantity - passenger:	450L
IATA-packing instructions - cargo:	964
IATA-max. quantity - cargo:	450L

Other Applicable Information (Air Transport)

E1

passenger-LQ: Y964

14.5 Environmental Hazards

ENVIRONMENTALLY HAZARDOUS: no

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

National Regulatory Information

water contaminating class (D): 1 - slightly water contaminating

Additional Information

UVV: Verarbeiten von Klebstoffen (Processing of Adhesives) (VBG 81)

16. Other Information

Relevant R-Phrases (Number and Full Text)

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

Relevant H- and EUH-Phrases (Number and Full Text)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds.
Keep out of the reach of children.

Further Information

All information, recommendations, and advice are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance nor warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual, manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processability. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility. Publication is not a licence and does not intend the violation of any patents.