

Safety Data Sheet According to the Regulation (EC) No. 1907/2006

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier

fast-acting adhesive based on ethyl cyanoacrylate, low viscosity, transparent-hardening,
20g=0,02l

Article Number: KL2100

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

-

1.3 Details of the Supplier of the Safety Data Sheet

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

R&G Faserverbundwerkstoffe GmbH
Composite Technology
post office box 1145
71111 Waldenbuch (Germany)

phone: +49 7157 5304-60
fax: +49 7157 5304-70
email: info@r-g.de

Supplier: FIOR & GENTZ Gesellschaft für Entwicklung und
Vertrieb von orthopädietechnischen 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
phone: +49 761 19240

2. Hazards Identification

2.1 Classification of the Substance or Mixture

Labelling According to Directive 67/548/EEC or 1999/45/EC	Hazard Designations:	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 irritation 2
	serious eye damage/eye irritation:	eye irritation 2
	specific target organ toxicity (single exposure):	STOT single 3
Hazard Warnings:	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	

2.2 Label Elements

Hazardous Component(s) which Must Be Listed on the Label: ethyl-2-cyanoacrylate

Signal Word: attention

Pictograms:



GHS07

Hazard Warnings:	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
Safety Instructions:	P101	If medical advice is needed, have the package or identification label ready.
	P271	Only use outdoors or in well-ventilated areas.

	P305+P351+P338	IN CASE OF CONTACT WITH EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Special Label Texts for Certain Mixtures:	EUH202	Cyanoacrylate. Danger. Sticks skin and eyelids together within seconds. Keep out of the reach of children.
Information on Labelling:	The product is classified and labelled according to EC Directives and the German Ordinance on Hazardous Substances (GefStoffV).	

3. Composition/Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:

EC No.:	Description	Percentage [%]
CAS No.	classification according to Directive 67/548/EEC classification according to Regulation (EC) No. 1272/2008 [CLP]	
Index No.:	classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No.:	230-391-5 ethyl-2-cyanoacrylate	80 - < 100
	7085-85-0 Xi - irritant; R36/37/38	
	607-236-00-9 Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319, H335, H315	

Text of R-, H- and EUH-phrases: see paragraph 16

4. First Aid Measures

4.1 Description of First Aid Measures

General Information:	Remove contaminated clothing.
After Inhalation:	Supply fresh air. In case of sustained symptoms, seek medical attention.
After Skin Contact:	After contact with skin, immediately wash with plenty of water and soap. In case of skin irritation, seek medical attention.
After Eye Contact:	If the product gets into your eyes, rinse immediately with plenty of water for at least 5 minutes with open eyelids. Consult an eye specialist afterwards.

After Ingestion: Immediately clean mouth with water and drink plenty of water afterwards. Cause vomiting if the affected person is conscious. Seek medical advice.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

5. Firefighting Measures

5.1 Extinguishing Media

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

Unsuitable Extinguishing Media: full water jet

5.2 Special Hazards Arising from the Substance or Mixture

Carbon monoxide.

Risk of the formation of toxic pyrolysis products.

5.3 Advice for Firefighters

In Case of Fire: Use self-contained breathing apparatus (SCBA). In case of fire and/or explosion, do not breathe fumes.

Additional Information: Immediately remove undamaged cans from the danger zone and cool with water if necessary. Risk of bursting! Contaminated extinguishing water must not be allowed to enter the sewer system.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Eliminate all ignition sources. Use respiratory protection if vapour, dust or aerosol is generated. Special danger of slipping due to leaking/spilled product.

6.2 Environmental Protection Measures

Do not discharge into drains or bodies of water. Contain large spills (e. g. with a dyke or oil barrier).

6.3 Methods and Material for Containment and Cleaning

Soak up in absorbent material (sand, diatomaceous earth, acid-binding agent, general-purpose binder). Dispose of contaminated material as waste in accordance with paragraph 13.

7. Handling and Storage

7.1 Precautions for Safe Handling

Advice on Safe Handling: Use only in well-ventilated areas. Avoid spillage or spraying indoors. During processing, volatile, flammable components can be released. Keep away from ignition sources - No smoking. Do not eat, drink or smoke while working. Clean skin thoroughly after work and before breaks. Preventive hand protection by using skin protection products is recommended. Do not wear contaminated clothing outside the workplace. Change contaminated clothing.

Advice on Protection Against Fire and Explosion: Keep away from ignition sources - No smoking.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage Rooms and Container Requirements: Protect from heat and direct solar radiation. Keep container in a cool, well-ventilated place. Keep container tightly closed. Provide solvent-resistant and dense floor. Only use containers that are specifically approved for the product.

Information on Compatible Storage: Keep away from oxidising agents.

Storage Class According to TRGS 510: 10

8. Exposure Control and Limitations/Personal Protective Equipment

8.1 Control Parameters

-

8.2 Limiting and Monitoring of Exposure

Appropriate Engineering Controls: Ensure sufficient ventilation of storage and work areas.

Protection and Hygiene Measures: Wash hands before breaks and at the end of each workday. Do not smoke, eat or drink at work.

Eye and Face Protection: Wear tightly fitting safety glasses (EN 166).

Hand Protection: Wear protective gloves (EN 374) > 120 min. Preventive skin protection with skin protection ointment.

Body Protection:	Wear protective clothing.
Respiratory Protection:	For long or strong exposure: use gas mask with filter A.

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State:	liquid
Colour:	colourless
Odour:	pungent
Change in State	
Initial Boiling Point and Boiling Range:	185°C (365°F)
Flash Point:	85°C (185°F)
Auto-Ignition Temperature	
Solid:	490°C (365°F)
Density (at 20°C/68°F):	1,04 g/cm ³
Water Solubility:	insoluble

9.2 Other Information

-

10. Stability and Reactivity

10.2 Chemical Stability

Stable under the specified storage conditions.

10.3 Possibility of Hazardous Reactions

Water, amines, alcohols, alkalis (lyes); oxidizing agent, strong.

10.4 Conditions to Avoid

Protect from heating/overheating.

10.6 Hazardous Decomposition Products

Gases/vapours, irritant.

11. Toxicological Information

Acute Toxicity none known

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

Practical Experiences

Observations Relevant to Classification: none known

General Information: The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

12. Ecological Information

-

13. Notes on Disposal

13.1 Waste Treatment Methods

Recommendation: Dispose as hazardous waste.

Waste Code 080409
Product Residues: Waste from HZVA (Herstellung, Zubereitung, Vertrieb und Anwendung; English: production, preparation, distribution and application) of coatings (paints, varnishes, enamels), adhesives, sealants and printing inks; waste from HZVA of adhesives and sealants (including water-repellent materials); waste adhesives and sealants containing organic solvents or other hazardous substances.
Classified as hazardous waste.

Disposal of Uncleaned Packaging and Recommended Cleaning Agents:

Non-contaminated packagings can be used for recycling. Packaging that cannot be cleaned must be disposed of in the same way as the substance.

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

no hazardous material as defined by the transport regulations

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

no hazardous material as defined by the transport regulations

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

UN 3334

14.2 Proper UN Shipping Name

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

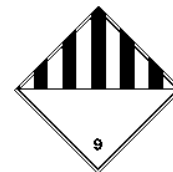
14.3 Transport Hazard Categories

9

14.4 Packaging Group

III

hazard label: 9



special regulations	A27
limited quantity (LQ) passenger:	30kg G
IATA packing instructions – passenger:	964
IATA maximum quantity – passenger:	450l

IATA packing instructions – cargo: 964

IATA maximum quantity – cargo: 450l

Other Relevant Information on Air Transport

exempted quantity: E1

passenger LQ: Y964

14.5 Environmental Hazards

dangerous to the environment No.

15. Legal Regulations**15.1 Safety, Health and Environmental Protection Regulations and Specific Legal Regulations for the Substance or Mixture****National Regulations:**Technical Instructions Air I: 5.2.5: Organic substances expressed as total carbon at m \geq 0,50kg/h: conc. 50mg/m³

percentage:

water hazard class: 1 – slightly hazardous to water

Additional Information: UVV (Unfallverhütungsvorschriften; English: accident prevention regulations) processing of adhesives (VBG 81)**16. Other Information****Wording of R-Phrases (Number and Full Text)**

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

Wording of 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. Sticks skin and eyelids together within seconds. Keep out of the reach of children.

Further Information

All information, recommendations or advice are given to the best of our knowledge and belief. They are non-binding information and contain neither explicit nor tacit assurances nor a guarantee of certain properties. The specified property values are typical values. Recommendations or advice describe our products and possible applications in general or exemplary but not individual cases. In the course of continuous technical development and improvement of our products, changes may occur in the characteristic values, texts and graphics; no special reference is made to any possible changes. The customer is responsible for testing our products with regard to their suitability for the intended processes and purposes and their corresponding processability, as the technical application possibilities of our products are numerous and, depending on the case, very different. They are therefore beyond our control and are the sole responsibility of the customer. Any industrial property rights as well as existing laws and regulations are to be observed by the customer or user on his own responsibility. The publication is not a license and does not intend to infringe any patents.