

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Cyanoacrylate thin Type SF 5 (kangaroo)

Print date: 31.10.2012

Product code: 1501002-GHS-2012

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### 1. Identification of the substance/mixture and of the company/undertaking

#### Identification of the substance or mixture

Cyanoacrylate thin Type SF 5 (kangaroo)

#### Company/undertaking identification

Company name:	R&G Faserverbundwerkstoffe GmbH	
	Composite Technology	
Street:	Im Meißel 7 - 13	
Place:	D-71111 Waldenbuch	
Post-office box:	1145	
	D-71107 Waldenbuch	
Telephone:	+49-7157-530460	Telefax: +49-7157-530470
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	
1.4. Emergency telephone:	poison information centre	

### 2. Hazards identification

#### **Classification**

Indications of danger : Irritant

R-phrases:  
Extremely flammable.  
Irritating to skin.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Vapours may cause drowsiness and dizziness.

GHS: Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Respiratory/skin sensitization: Skin Sens. 1  
Germ cell mutagenicity: Muta. 2  
Carcinogenicity: Carc. 2  
Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing genetic defects.  
Suspected of causing cancer.  
May cause respiratory irritation.

### 3. Composition/information on ingredients

**Chemical characterization ( Mixture )**

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### Hazardous components

EC No	CAS No	Chemical name	Quantity
		Classification	
		GHS classification	
230-391-5	7085-85-0	ethyl 2-cyanoacrylate	50 - < 100 %
		Xi - Irritant R36/37/38	
		Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319 H335 H315	
	9011-14-7	Polymethylmethacrylat	1 - < 20 %
		Xi - Irritant R36-37-38	
204-617-8	123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol	0,1 - < 1 %
		Carc. Cat. 3, Muta. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R40-68-22-41-43-50	
		Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400	

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

### 4. 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 soap and plenty of water. 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 large quantities of water. Do not attempt to make an unconscious person vomit. Consult physician.

#### Advice to doctor

Provide symptomatic treatment.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).  
Extinguishing powder.  
Sand.  
Water fog.

#### Extinguishing media which must not be used for safety reasons

High power water jet.

#### Special exposure hazards arising from substance or mixture itself, combustion products, resulting gases

Pyrolysis products, toxic. (Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. (CO))

#### Special protective equipment for fire-fighters

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

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### Additional information

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

## 6. Accidental release measures

### Personal precautions

Provide adequate ventilation. Remove from all sources of ignition. Wear respiratory protection when in the presence of vapour, dust, and aerosols. Special risk by leaking/spilling product.

### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Prevent allover extension (e.g. knocking-down or a boom).

### Methods for cleaning up/taking 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

### Handling

#### Advice on safe handling

Ventilate adequately storage and work rooms.

#### Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking.

### Storage

#### 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 approved for especially this product.

#### Advice on storage compatibility

Keep away from oxidising agents.

Storageclass (D): 12

## 8. Exposure controls/personal protection

### Exposure limit values

#### Exposure limits (EH40)

CAS No	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
7085-85-0	Ethyl cyanoacrylate	-	-		TWA (8 h)	WEL
		0.3	1.5		STEL (15 min)	WEL
123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Occupational exposure controls

Ventilate adequately storage and work rooms.

#### Protective and hygiene measures

"Wash hands when done working with material; at breaks, lunch, shift changes, etc." Do not smoke, eat, or drink during work.

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### Respiratory protection

In the event of long or excessive effects: use a gas mask with type A filter.

### Hand protection

Wear protective gloves. (EN 374) > 120 min  
Protect skin by using skin protective cream.

### Eye protection

Tightly sealed safety glasses. (EN 166)

### Skin protection

Wear protective clothing.

## 9. Physical and chemical properties

### General information

Physical state:	liquid
Colour:	colourless
Odour:	pungent

### Important health, safety and environmental information

#### Changes in the physical state

	Test method
Boiling point:	185 °C
Flash point:	85 °C
Density (at 20 °C):	1,07 g/cm <sup>3</sup>
Water solubility:	insoluble

### 9.2. Other information

Auto-ignition temperature

Solid: 490 °C

## 10. Stability and reactivity

### 10.4. Conditions to avoid

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

Gas / vapours, irritant.

## 11. Toxicological information

### Acute toxicity

none known

### Empirical data on effects on humans

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

## 13. Disposal considerations

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### 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. Noncleanable packaging must be disposed of like the substance.

## 14. Transport information

### Land transport (ADR/RID)

14.1. UN number: UN3295  
ADR/RID class: 3  
Classification code: F1  
Warning plate  
Hazard No: 33  
Hazard label: 3



ADR/RID packing group: II  
Limited quantity: 1 L  
Tunnel restriction code: D/E

### Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

### Other applicable information (land transport)

E2

### Marine transport

14.1. UN number: UN3295  
IMDG code: 3  
Hazard label: 3



IMDG packing group: II  
EmS: F-E, S-D  
Limited quantity: 1 L

### Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

### Other applicable information (marine transport)

E2

### Air transport

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UN/ID number: UN3295  
ICAO/IATA-DGR: 3  
Hazard label: 3



ICAO packing group: II  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

### Description of the goods

HYDROCARBONS, LIQUID, N.O.S.

### Other applicable information (air transport)

only for more than 0,5 l  
E2  
: Y341

## 15. Regulatory information

### Labelling

Danger symbols: Xi - Irritant



Xi - Irritant

### Hazardous components which must be listed on the label

1,4-Dihydroxybenzol

### R phrases

12 Extremely flammable.  
38 Irritating to skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

### S phrases

16 Keep away from sources of ignition - No smoking.  
29 Do not empty into drains.

### Special labelling of certain mixtures

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).

### GHS labelling

Signal word: Warning  
Pictograms: exclamation mark; health hazard

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### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.

### Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see ... on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to ....

### National regulatory information

#### Additional information

UVV: Verarbeiten von Klebstoffen (VBG 81).

## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

12	Extremely flammable.
22	Harmful if swallowed.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
37	Irritating to respiratory system.
38	Irritating to skin.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.

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- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.
- 68 Possible risks of irreversible effects.

### Full text of H-Statements referred to under sections 2 and 3

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.

### Further Information

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or 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 processibility. 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.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*