

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Cyanoacrylate red, blue, green and XT**

Revision date: 17.03.2021

Product code: 150110

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

adhesive

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

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 (0)7157 5304-60	Telefax: +49 (0)7157 5304-70
e-mail:	info@r-g.de	
Contact person:	Michael Groß	Telephone: +49 (0)7157 5304-60
e-mail:	urlaubmg@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	

**1.4. Emergency telephone number:** Vergiftungs-Informations-Zentrale Freiburg  
Tel: +49 (0)761 19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

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****Regulation (EC) No. 1272/2008****Hazard components for labelling**

ethyl 2-cyanoacrylate

**Signal word:** Warning**Pictograms:****Hazard statements**

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

**Precautionary statements**

P102	Keep out of reach of children.
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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.
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#### 2.3. Other hazards

health hazards: Persons allergic to cyanoacrylates should avoid handling the product.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7085-85-0	ethyl 2-cyanoacrylate			70-90 %
	230-391-5	607-236-00-9	01-2119527766-29	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
123-31-9	1,4-dihydroxybenzene			0,01 -<0,1 %
	204-617-8	604-005-00-4	01-2119524016-51	
	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 H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7085-85-0	230-391-5	ethyl 2-cyanoacrylate	70-90 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg STOT SE 3; H335: >= 10 - 100		
123-31-9	204-617-8	1,4-dihydroxybenzene	0,01 -<0,1 %
	dermal: LD50 = 2000 mg/kg; oral: LD50 = 375 mg/kg M akut; H400: M=10		

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated clothing and wash before wearing again.

##### After inhalation

Provide fresh air.  
consult a doctor.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Consult physician if problems persist.  
Do not forcibly remove solidified product from the skin.

##### After contact with eyes

Rinse gently with water for a few minutes. Remove any contact lenses if possible. Continue rinsing.  
Bei anhaltender Augenreizung: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.  
Do not open stuck eyelids forcibly and only with professional help.

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### After ingestion

Get medical treatment.

Do NOT induce vomiting.

Do not give anything to drink.

Make sure that the respiratory tract is not obstructed. The product polymerizes immediately in the mouth and is therefore impossible to swallow. Saliva slowly separates the cured product from the mouth (within several hours). Do not attempt to pull the polymerized adhesive from the mouth. Check the mouth to ensure that the adhesive, if it comes off, is not swallowed.

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

Cyanoacrylates give off heat during solidification. Extensive contamination with the adhesive can generate enough heat to cause a burn. Burns should be treated normally after carefully removing the polymer from the skin. Remove the adhesive by gently peeling it off while soaking the contaminated area in cold water. It takes longer to remove the adhesive with cold water, but it is still effective. In the case of unintentional clothing splashing and penetrating to the skin, clothing should never be forcibly removed from the skin. If clothing is stuck directly to the skin and the person does not feel a burn, the affected area should be soaked with warm soapy water and the clothing carefully removed by peeling or rolling it back. If a burn is felt, cold water should be used. Forcible removal of taped clothing can cause mechanical damage to the skin, which can further cause serious injury.

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

Treat symptomatically. Provide safety data sheet to physician.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).

Water spray jet

Sand.

Extinguishing powder.

#### 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

Do not inhale explosion and combustion gases.

Wear a self-contained breathing apparatus and chemical protective clothing.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

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

#### General measures

Provide adequate ventilation..

Keep away from ignition sources.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into drains, surface or groundwater.

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

#### For containment

Take up with absorbent material (e.g. sand, kieselguhr, universal binder). Send in suitable containers for

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recovery or disposal.

**SECTION 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 can easily volatile, flammable constituents are released.

Do not eat, drink or smoke when using this product. after work and before breaks for thorough skin cleansing.  
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.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Only use containers specifically approved for the substance/product.

Provide a solvent-resistant and sealed floor.

**Hints on joint storage**

Do not store together with oxidizing agents.

**Further information on storage conditions**

Protect from heat / overheating.

Keep in a cool, well-ventilated place.

Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

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

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
7085-85-0	ethyl 2-cyanoacrylate			
Worker DNEL, long-term		inhalation	systemic	9,25 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	9,25 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	9,25 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	9,25 mg/m <sup>3</sup>

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation in the workplace.

**Eye/face protection**

Safety goggles. (EN 166:2001)

**Skin protection**

Light protective clothing.

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**Respiratory protection**

Respiratory equipment for high concentrations.  
Short-term filter device, filter A. (DIN EN 14387)

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: pungent

**Changes in the physical state**

Boiling point or initial boiling point and boiling range: 150 °C  
Flash point: 87 °C

**Self-ignition temperature**

Solid: 500 °C  
Density (at 20 °C): 1,05 g/cm<sup>3</sup>  
Water solubility: insoluble

**9.2. Other information****SECTION 10: Stability and reactivity****10.2. Chemical stability**

Stabile 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**

Irritant gases / vapors

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****ATEmix tested**

	Dose	Species	Source
LD50, oral	> 5000 mg/kg		
LD50, dermal	> 2000 mg/kg		

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**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7085-85-0	ethyl 2-cyanoacrylate				
	oral	LD50 > 5000 mg/kg	rat		OECD 401
	dermal	LD50 > 2000 mg/kg	rabbit		OECD 402
123-31-9	1,4-dihydroxybenzene				
	oral	LD50 375 mg/kg	Rat		
	dermal	LD50 2000 mg/kg	rabbit		

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
123-31-9	1,4-dihydroxybenzene					
	Acute fish toxicity	LC50 638 mg/l	96 h	fish		
	Acute algae toxicity	ErC50 33 - 330 mg/l	72 h	algae		

**12.4. Mobility in soil**

The cured product is immobile.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Product residues must be disposed of in compliance with the Waste Directive 2008/98/EC and national and regional regulations. No waste code number according to the European Waste Catalogue (AVV) can be defined for this product, as only the intended use by the consumer allows an allocation. The waste code number must be determined within the EU in consultation with the disposal company.

**List of Wastes Code - residues/unused products**

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 hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Inland waterways transport (ADN)****14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

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**Marine transport (IMDG)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:** Air transport, regulated, liquids, n.o.s.(Cyanoacrylates) (only for more than 0,5l)**14.4. Packing group:** III

Hazard label: 9

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15.

**Relevant H and EUH statements (number and full text)**

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

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