



Safety Data Sheet

according to Regulation (EC) No 2020/878

Superglue red, blue and green

Revision date: 19.02.2024

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	
Internet:	www.r-g.de	
Responsible Department:	Management	

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

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

GB CLP Regulation

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

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
P405	Store locked up.



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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P102	Keep out of reach of children.
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.

2.3. Other hazards

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
7085-85-0	ethyl 2-cyanoacrylate	70-95 %
	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	70-95 %
		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 Aquatic Acute 1; 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. When in doubt or if symptoms are observed, get medical advice.

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.



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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.

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 (CO₂).
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.

Additional information

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 advice

Provide adequate ventilation.
Keep away from ignition sources.
.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.



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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 recovery or disposal.

Other information

Clean contaminated articles and floor according to the environmental legislation.

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.
Storage temperature: ca. 6 - 8 C

7.3. Specific end use(s)

adhesive

SECTION 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 cyanoacrylate	0.3	1.5		STEL (15 min)	WEL
123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL

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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 ³
Worker DNEL, long-term		inhalation	local	9,25 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	9,25 mg/m ³
Consumer DNEL, long-term		inhalation	local	9,25 mg/m ³
Worker DNEL, acute		inhalation	systemic	9,25 mg/m ³
Consumer DNEL, acute		inhalation	systemic	9,25 mg/m ³
Consumer DNEL, acute		inhalation	local	9,25 mg/m ³
Worker DNEL, acute		inhalation	local	9,25 mg/m ³
123-31-9	1,4-dihydroxybenzene			
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	2,1 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,66 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,05 mg/m ³

PNEC values

CAS No	Substance	Value
123-31-9	1,4-dihydroxybenzene	
Freshwater		0,00057 mg/l
Marine water		0,000057 mg/l
Freshwater sediment		0,0049 mg/kg
Marine sediment		0,00049 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,71 mg/l
Soil		0,00064 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation in the workplace.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety goggles. (EN 166:2001)

Hand protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Skin protection

Light protective clothing.

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

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Thermal hazards

No information available.

Environmental exposure controls

Avoid release into the environment.

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

Physical state:	liquid	
Colour:	colourless	
Odour:	pungent	
Boiling point or initial boiling point and boiling range:		150 °C
Flash point:		87 °C
Auto-ignition temperature:		500 °C
Water solubility:		insoluble
Density (at 20 °C):		1,05 g/cm ³

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Stabile under the specified storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect from heat / overheating.

10.5. Incompatible materials

Oxidizing agents, strong. Water. amines. alcohols. Alkalis (alkalis).

10.6. Hazardous decomposition products

Irritant gases / vapors

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

ATEmix tested

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

ATEmix calculated

ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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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		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

oral, dermal, inhalative, eye contact.

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain any substance that exhibits endocrine disrupting properties towards humans, as no ingredient meets the criteria.

Other information

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

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		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.



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12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Avoid release into the environment.

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

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3334
14.2. UN proper shipping name: Liquid substance subject to aviation regulations, n.o.s. (ETHYLCYANACRYLATE)
14.3. Transport hazard class(es): 9
14.4. Packing group: N-S
Classification code: M11

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3334
14.2. UN proper shipping name: Liquid substance subject to aviation regulations, n.o.s. (ETHYLCYANACRYLATE)
14.3. Transport hazard class(es): 9
14.4. Packing group: N-S
Classification code: M11

Marine transport (IMDG)

14.1. UN number or ID number: UN 3334
14.2. UN proper shipping name: AVIATION REGULATED LIQUID, N.O.S. (ETHYLCYANACRYLATE)
14.3. Transport hazard class(es): 9

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14.4. Packing group:

Hazard label:

-

9



Excepted quantity:

960

Segregation group:

2 - ammonium compounds

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 3334

14.2. UN proper shipping name:

AVIATION REGULATED LIQUID, N.O.S. (ETHYLCYANACRYLATE)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A27

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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, Entry 75

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 12,13,14,15.

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Abbreviations and acronyms

Acute Tox: Acute toxicity
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Muta: Germ cell mutagenicity
Carc: Carcinogenicity
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard

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.)