

## Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Product Name: i.STRONG Part A

Revision Date: 29.09.2020

Printing Date: 13.04.2021

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### SECTION 1

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

##### 1.1 Product Identifier

Product Name i.STRONG Part A  
Pure substance/mixture Mixture

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use This product is a cyanoacrylate-based adhesive.  
Uses advised against Consumer use

##### 1.3 Details of the supplier of the safety data sheet

Company Name i.GLUESYSTEMS GmbH  
Ulmer Str. 53/1  
D-73262 Reichenbach a.d.F.  
+49(0) 7153 929 7885  
info@i-gluesystems.com

Contact: +49(0) 7153 929 7885  
info@i-gluesystems.com

1.4 Emergency telephone number: +49(0) 551 19240 Emergency telephone number Göttingen 24h Mo-Su

### SECTION 2

#### Hazards identification

##### 2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

##### 2.2 Label Elements

Contains: ethyl-2-cyanoacrylate



##### Signal word

WARNING

##### Hazard statements

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

##### EU Specific Hazard Statements

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

##### Precautionary statements

P261 - Avoid breathing vapours.  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P280 - Wear protective gloves and eye/face protection.  
P337 + P313 - If eye irritation persists: Get medical advice/attention.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

##### Additional information

Please refer also to Safety Data Sheet of Part B.

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## 2.3. Other Hazards

Will bond to skin

Polymerises with evolution of heat

## PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)

## SECTION 3

### Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2. Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
ethyl-2-cyanoacrylate	230-391-5	7085-85-0	7085-85-0	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	STOT SE 3 :: C>=10%	01-2119527766-29-XXXX
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	0.1 - <1	Repr. 2 (H361f) Aquatic Chronic 4 (H413)		[8]
1,4-Benzenediol	204-617-8	123-31-9	0.01 - <0.1	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (M Factor Acute = 10) (M Factor Chronic = 1)		01-2119524016-51-XXXX

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

#### Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4

### First aid measures

#### 4.1 Description of first aid measures

##### General advice

Show this safety data sheet to the doctor in attendance. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention.

##### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

##### Eye contact

If eyelids are bonded closed or if skin to skin or skin to clothing bonding has occurred, release bonding by covering affected area with a pad wetted with warm water. Do not force eyes or any bonded skin apart. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention. Consult an ophthalmologist. Do not rub affected area. Get medical attention if irritation develops and persists.

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## Skin contact

If eyelids are bonded closed or if skin to skin or skin to clothing bonding has occurred, release bonding by covering affected area with a pad wetted with warm water. Do not force eyes or any bonded skin apart. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention. Wash off immediately with soap and plenty of water for at least 15 minutes. Allow acetone or warm water to penetrate the bond and gently attempt to move bonded areas without pulling the skin away from bonded area. Do not remove clothing if adhering to skin. Polymerises with evolution of heat. Bonded areas may be gently peeled apart using a blunt object such as a spoon.

## Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Ensure breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours). Clean mouth with water. Drink 1 or 2 glasses of water. Call a doctor or poison control centre immediately.

## Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation.

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

**Note to doctors** Treat symptomatically.

## SECTION 5

### Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

Full water jet. Do not scatter spilled material with high pressure water streams.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Bonds skin and eyes in seconds.

**Hazardous combustion products** Nitrogen oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

##### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6

### Accidental release measures

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

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. See section 8 for more information.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off floor.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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## SECTION 7

### Handling and storage

#### 7.1 Precautions for safe handling

##### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Do not eat, drink or smoke when using this product. See section 8 for more information. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Please refer also to Safety Data Sheet of Part B.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

#### 7.3. Specific end use(s)

##### Specific Use(s)

This product is a cyanoacrylate-based adhesive.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## SECTION 8

### Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure Limits

Chemical name	European Union	Ireland	United Kingdom
ethyl-2-cyanoacrylate 7085-85-0	-	TWA: 0.2 ppm STEL: 1 ppm	STEL: 0.3 ppm STEL: 1.5 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

#### 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

##### Personal Protective Equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Hand protection Recommended Use: Nitrile rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Glove thickness > 0.4 mm. Latex gloves. Polyethylene. Polypropylene. Glove thickness >= 0.15 mm. Gloves must conform to standard EN 374

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** None under normal use conditions.

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9

### Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Colour	Colourless
Odour	Characteristic Irritating
Odour threshold	No information available

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Property	Values	Remarks • Method
pH	Not applicable.	
Melting point / freezing point	No data available	
Boiling point / boiling range	= 169 - 187 °C	
Flash point	= 103 °C	Cleveland Open Cup
Evaporation rate	No data available	
Flammability (solid, gas)	Not applicable for liquids .	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available limits	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available	
Water solubility	No data available	Polymerisation can occur
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	
9.2. Other information		
Solid content (%)	No information available	
VOC Content (%)	92 g/L	
Density	No information available	

## SECTION 10 Stability and reactivity

10.1 Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
10.3. Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerisation	Hazardous polymerisation may occur.
10.4. Conditions to avoid	
Conditions to avoid	Protect from moisture.
10.5. Incompatible materials	
Incompatible materials	Alcohols. Alkali. Amines. Water.
10.6. Hazardous decomposition products	
Hazardous decomposition products	None under normal use conditions.

## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects Information on likely routes of exposure

Product Information	.
Inhalation	May cause irritation of respiratory tract. Specific test data for the substance or mixture is not available.
Eye contact	Bonds skin and eyes in seconds. Irritating to eyes. Causes serious eye irritation.
Skin contact	Bonds skin and eyes in seconds. Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

## Numerical measures of toxicity

### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

## Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ethyl-2-cyanoacrylate 7085-85-0	>5000 mg/kg (Rattus) OECD 401	>2000 mg/Kg (Oryctolagus cuniculus) OECD 402	<21.1 mg/L (Rattus) 1 h
6,6'-di-tert-butyl-2,2'-methylene di-p-cresol 119-47-1	>10000 mg/kg (Rattus)	> 10000 mg/kg (Oryctolagus cuniculus)	
1,4-Benzenediol 123-31-9	390 mg/kg (Rattus)	= 74800 mg/kg (Oryctolagus cuniculus)	

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Skin corrosion/irritation

Classification based on data available for ingredients. Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

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

### Germ cell mutagenicity

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

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
1,4-Benzenediol 123-31-9	Muta. 2

### Carcinogenicity

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

Chemical name	European Union
1,4-Benzenediol 123-31-9	Carc. 2

The table below indicates whether each agency has listed any ingredient as a carcinogen.

### Reproductive toxicity

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

### STOT - single exposure

May cause respiratory irritation.

### 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.

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## SECTION 12

### Ecological information

#### 12.1 Toxicity

##### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
ethyl-2-cyanoacrylate 7085-85-0	polymerizes	polymerizes	-	-		
6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol 119-47-1	-	LD50 (96h) >5mg/L	-	-		
1,4-Benzenediol 123-31-9	EC50: =0.335mg/L (72h, Pseudokirchneriella subcapitata) EC50: =13.5mg/L (120h, Desmodesmus subspicatus)	LC50 96 h = 0.044 mg/L (Oncorhynchus mykiss flow-through)	EC50 = 0.038 mg/L 15 min EC50 = 0.0382 mg/L 30 min EC50 = 0.042 mg/L 5 min EC50 = 23.75 mg/L 60 min	EC50: =0.29mg/L (48h, Daphnia magna)	10	1

#### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

##### Component Information

###### 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (119-47-1)

###### Method

OECD Test No. 301C: Ready  
Biodegradability: Modified MITI Test  
(I) (TG 301 C)

###### Exposure time

28 days

###### Value

###### Results

0 % Not readily biodegradable

#### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

##### Component Information

###### Chemical name

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol  
119-47-1

###### Partition coefficient

>3.6

###### Bioconcentration factor (BCF)

840

1,4-Benzenediol  
123-31-9

0.5

40

#### 12.4. Mobility in soil

**Mobility in soil** No information available.

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT).

##### Chemical name

ethyl-2-cyanoacrylate  
7085-85-0

##### PBT and vPvB assessment

The substance is not PBT / vPvB  
PBT assessment does not apply

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol  
119-47-1

The substance is not PBT / vPvB

1,4-Benzenediol  
123-31-9

The substance is not PBT / vPvB  
PBT assessment does not apply

#### 12.6. Other adverse effects

**Other adverse effects** No information available.



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## SECTION 13

### Disposal considerations

#### 13.1. Waste treatment methods

##### Waste from residues/unused products

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

##### Contaminated packaging

Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

##### Waste codes / waste designations according to EWC / AVV

15 01 10\*: Packaging containing residues of or contaminated by dangerous substances.

16 03 03\* inorganic wastes containing hazardous substances. 16 05 05 gases in pressure containers other than those mentioned in

16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.

##### European Waste

Catalogue 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

##### Other information

Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14

### Transport information

#### Note:

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

#### Land transport (ADR/RID)

14.1 UN number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special Provisions None

#### IMDG

14.1 UN number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Marine pollutant Np

14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

#### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number UN3334

14.2 Proper Shipping Name Aviation regulated liquid, n.o.s (ethyl-2-cyanoacrylate)

14.3 Transport hazard class(es) 9

14.4 Packing group III

Description UN3334, Aviation regulated liquid, n.o.s (ethyl-2-cyanoacrylate), 9, III

14.5 Environmental hazards Not applicable

14.6 Special Provisions A27

Limited Quantity (LQ) 30 kg G

ERG Code 9A

## Section 15

### REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work



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## Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

### SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### Persistent Organic Pollutants

Not applicable

### National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at  $>10$  tpa. No Chemical Safety Assessment has been carried out for this mixture

## SECTION 16

### Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 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  
H361f - Suspected of damaging fertility  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H413 - May cause long lasting harmful effects to aquatic life

#### Legend

TWA TWA (time-weighted average)  
STEL STEL (Short Term Exposure Limit)  
Ceiling Ceiling Limit Value  
\* Skin designation  
SVHC Substance(s) of Very High Concern  
PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals  
STOT RE Specific target organ toxicity - Repeated exposure  
STOT SE Specific target organ toxicity - Single exposure  
EWC European Waste Catalogue

#### Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision Date:** 29-Sep-2020

#### Indication of changes

**Revision note** First time release.

**Training Advice** No information available

**Further information** No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**