

C·FLEX10

C·FLEX S2401 SYSTEM



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C-FLEX10

New adhesive technology: Ultra-fast, flexible, structural and transparent two-component cyanoacrylate.

FEATURES

24 x C-Flex 10

Net Volume: 10 ml

10 ml syringe available



C-FLEX 10

SKU: CF-1-2K10

#50 ml #industrial #syringe

#0.02 m² / lineal: 5cm x 40cm

C·FLEX

DESCRIPTION

Two-component cyanoacrylate adhesive system. Room temperature curing 4:1 mixing ratio system performing flexible, low odour bondlines with high mechanical strength and exceptional >200% elongation. The adhesive system is superfast curing with satisfactory use for repairing parts that flex, move or vibrate.

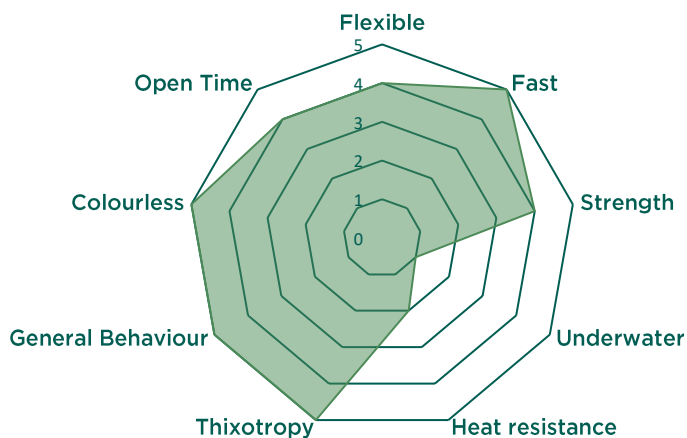
BENEFITS

- ∞ High Viscosity
- ∞ Very Fast Curing
- ∞ Label Free
- ∞ Multi-material bonding
- ∞ Impact and vibration absorbing
- ∞ Non-sagging

APPLICATIONS

- ∞ DIY
- ∞ Composites
- ∞ OEM
- ∞ Construction
- ∞ Industrial Processes

PROPERTIES



ONE4ALL
**ALL PURPOSE
MARINE ADHESIVE**
C-FLEX
P-BOND

CURING PERFORMANCE

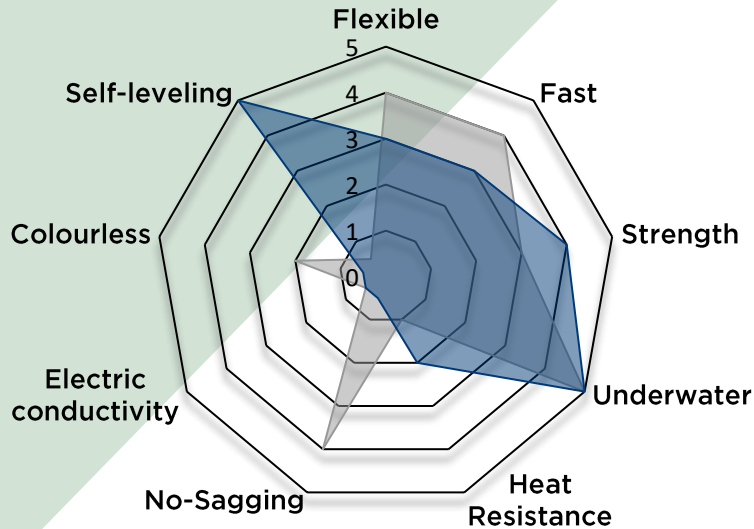
	ONE4ALL	ALL PURPOSE MARINE ADHESIVE	C-FLEX	P-BOND
Working Life (min)	8	8	6	20
Tack Free Time (min)	22	12	15	4
Full Cured Time (hours)	24	24	24	24

CURED MATERIAL

	ONE4ALL	ALL PURPOSE MARINE ADHESIVE	C-FLEX	P-BOND
Tensile Strength, Mpa @ 20 min	8.38	3.53	<3	27.8
Tensile Elongation (%)	23	55	>200	4.5
Hardness Shore A (ASTM 2204)	85	57	N/A	98
Glass Transition Temperature (Tg), °C	8 to 18	10 to 12	N/A	71

ONE4ALL

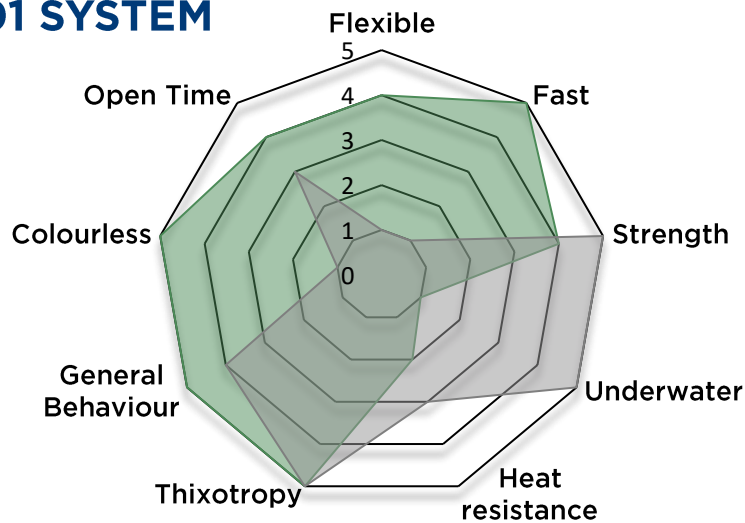
ALL PURPOSE MARINE ADHESIVE



C-FLEX

P-BOND

S2401 SYSTEM



CYANOACRYLATE 1K
ACRYLIC 2K
EPOXY 2K
POLYURETHANE 1K
SILICONE 1K
ONE4ALL
APMA
C-FLEX
P-BOND

FIBERGLASS

CARBON FIBER

METAL

GLASS

RUBBER

CERAMICS

FABRICS

WOOD

PLASTICS

EXCELLENT **WORKS** **&#!#%**

ALL THE INFO SHOWN REFERS TO STANDARD CHEMISTRY PRODUCTS
AVAILABLE ON THE MARKET

PRODUCT DESCRIPTION

C-Flex is a flexible, elastic and odourless instant adhesive with exceptional adhesion to a very broad range of materials and surfaces. Curing times of only 6 minutes while a polymer with more than 200% of elongation results within 10 minutes, working times (in-mixer) up to 6 minutes, high volumetric gap filling, instant adhesion to most

plastics, wood and metals including aluminium, and to porous and irregular surfaces. The gel consistency enables application in any orientation whilst the static mixing nozzle ensures uniform and precise application for exceptional user convenience.

PROPERTIES OF UNCURED MATERIAL

Resin	Typical	
	Value	Range
Chemical Type	Methoxyethyl Cyanoacrylate	
Appearance	Transparent gel	
Odour	Light	
Density (g/ml) @ 25°C	1,18	
Viscosity (cP) @ 25°C	100000	100000-190000
Flash Point (TCC) (°C)	12	

Hardener	Typical	
	Value	Range
Chemical Type	-	
Appearance	Transparent gel	
Odour	none	
Density (g/ml) @ 25°C	1,23	
Viscosity (cP) @ 25°C	80000	88000-100000
Flash Point (TCC) (°C)	>55	

Mixture	Typical	
	Value	Range
Appearance	Transparent gel	
Density (g/ml) @ 25°C	1,19	
Mix Ratio (R:H) by Vol.	1:1	
by Weight	1:1	
Open time at 25°C	6 - 9 minutes	
Working time at 25°C	5 - 6 minutes	

TYPICAL CURING PERFORMANCE

Cure Speed

Under normal conditions, the atmospheric moisture initiates the curing process. Although full functional strength is developed in a relatively short time, curing continues for at least 24 hours before full chemical resistance is developed.

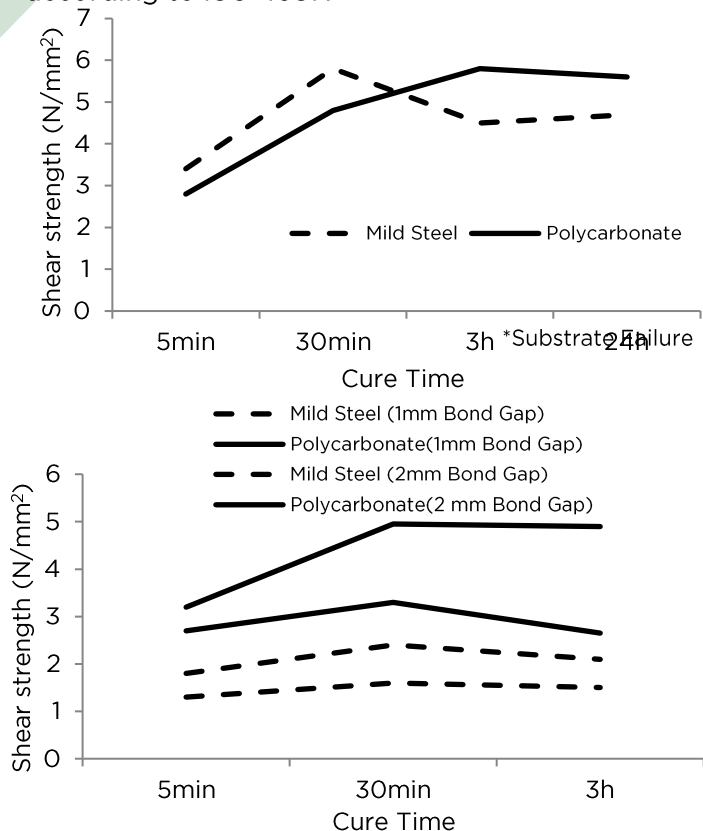
FIXTURE TIMES

Fixture time is the time at which an adhesive bond (250 mm²) is capable of supporting a 3 kg load for 10 seconds. The fixture time will depend on the substrate. The table below shows the fixture time for different substrates using lap shears.

	Time (s)
Pine Wood	180-210
Bleech Wood	90-120
ABS	45-75
Polycarbonate	60-90
Aluminium A5754	90-120
Mild steel	60-90

CURE SPEED vs SUBSTRATE

The rate and strength of cure will depend on the substrate used. The graph below shows the tensile shear strength developed with time on different materials and tested according to ISO 4587.



TYPICAL PERFORMANCE OF CURED MATERIAL

TENSILE SHEAR STRENGTH

The shear strength will depend on the substrate. The Table below shows the shear strength for different substrates using lap shears according to ISO 4587.

Substrates cured for 24h at 24°C.

	Strength (N/mm ²)
Pine Wood	4 - 5
Beech Wood	3 - 4
ABS	6 - 8*
Polycarbonate	5 - 7*
Aluminium A5754	2 - 3
Mild steel	4 - 5

TYPICAL ENVIRONMENTAL RESISTANCE

Hot Strength

Elasticity was measured by % elongation of the sample at break relative to initial sample length located between the sample holding clamps of the mechanical tester. The mechanical load was recorded at sample break and the Young's Modulus (YM) was automatically calculated from recorded stress-strain data.

- Substrates cured for 24h at 24°C.
- Elongation at break (%): >200
- Mechanical load at break (N): >150
- Young's Modulus (MPa): <2

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Regulatory Notice

Information given in the Material Safety Data Sheet is drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015. See the Material Safety Data Sheet for details.

Directions for use

1. For high strength structural bonds, removal of surface contaminants such as paint, oxide films, oils, dust, mold release agents and all other surface contaminants.
2. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.
3. **Syringe container:** Syringe ensures correct mixed ratio of the two components. Remove the syringe cap and expel a small amount of adhesive to be sure both sides are flowing evenly and freely. If automatic mixing of resin and hardener is desired, attach the mixing nozzle to the end of the cartridge and begin dispensing the adhesive. **Cartridge:** To use simply insert the cartridge into the application gun and start the plunger into the cylinder using light pressure on the trigger. Use conventional high viscosity caulking gun. Remove the syringe cap and expel a small amount of adhesive to be sure both sides are flowing evenly and freely. If automatic mixing of resin and hardener is desired, attach the mixing nozzle to the end of the cartridge and begin dispensing the adhesive. For maximum bond strength apply adhesive evenly to both surfaces to be joined.

4. After uniting the substrates, 30-45 seconds are available for repositioning depending on the substrate. Press the two parts together firmly for around 30 seconds. After releasing the pressure, wait 5 minutes before goodhandling strength, 10 minutes for a fully cured material and 24h for full strength.
5. Make use of the syringe or discard product at least every 2 minutes to avoid the product from polymerizing inside the mixer, if you do not want to replace the mixer.
6. After use, discard the mixer and replace the cap. Store the syringe in a cool and dry environment.
7. Excess uncured adhesive can be cleaned up with ketone type solvents.

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 2°C to 8°C unless otherwise labeled. Shelf life was guaranteed for 12 months in described conditions.

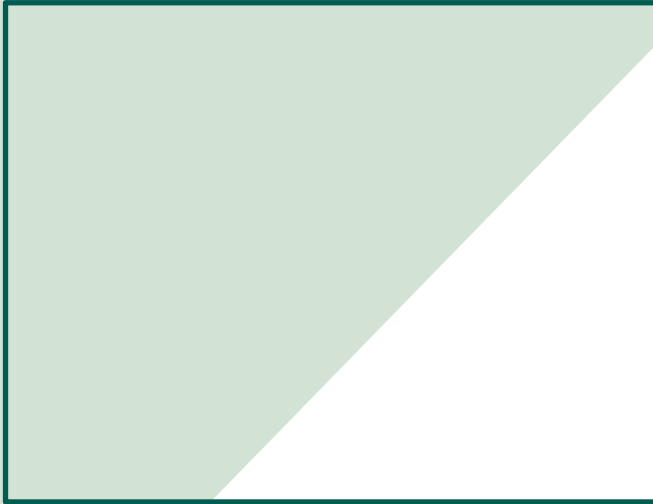
Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing,

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AUTHORIZED DEALER DETAILS



SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

C-FLEX (Component A)



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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: C-FLEX Part A

1.2 Relevant identified uses of the mixture and uses advised against.

Adhesive

Uses advised against:
Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Sailing Technologies, S.L.**
Address: C/ CALATRAVA Nº 68, BAJOS 3
City: 08017 BARCELONA
Province: BARCELONA
Telephone: +34 932 693 348
E-mail: info@sailingtechnologies.com
Web: www.sailingtechnologies.com

1.4 Emergency telephone number: +34 932 693 348 (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

2.1 Classification of the mixture.

Not a hazardous substance or mixture according to Regulation CLP (EC) No. 1272/2008.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms: None.

Signal Word: None.

Hazard statements:

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH208 Contains 4-Methoxyphenol. May produce an allergic reaction.

Precautionary statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

For full text of these Hazard and Precautionary statements, see Section 16.

2.3 Other hazards.

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

General chemical description: Cyanoacrylate adhesive

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C-FLEX (Component A)



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Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
CAS No: 27816-23-5 EC No: 248-670-5	2-Methoxyethyl cyanoacrylate	>80 - ≤98 %	-	-
CAS No: 67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	1 - 10 %	-	-
-	Acrylic polymer	1 - 10 %	-	-
CAS No: 150-76-5 EC No: 205-769-8	4-Methoxyphenol	0.1 - < 1 %	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1; H317 Repr. 2; H361d Aquatic Chronic 3; H412	-
CAS No: 119-47-1 EC No: 204-327-1	2,2'-Methylenebis(6-tert-butyl-4-methylphenol)	0.1 - < 1 %	Repr. 2; H361 Aquatic Chronic 4; H413	-

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

Move to fresh air, consult doctor if complaint persists

In case of skin contact:

Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action.

In case of eye contact:

If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.

If swallowed:

Ensure that 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).

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

Eye irritation, conjunctivitis
Skin redness, inflammation
Respiratory system irritation, coughing, breath shortness, chest tightness

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

See section 4.1

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C-FLEX (Component A)



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SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the mixture.

Special risks.

Carbon oxides, nitrogen oxides (NO_x).

5.3 Advice for firefighters.

Wear self contained breathing apparatus for fire fighting if necessary.

Fire protection equipment.

No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Ensure adequate ventilation.

6.2 Environmental precautions.

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up.

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

6.4 Reference to other sections.

See advice in section 8.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

Ventilation (low level) is recommended when using large volumes.

Use of dispensing equipment is recommended to minimise the risk of skin or eye contact

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2 Conditions for safe storage, including any incompatibilities.

For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)

7.3 Specific end use(s).

Adhesive

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

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The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

Name	Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15-minute reference period)		Remarks
2-Methoxyethyl cyanoacrylate CAS No: 27816-23-5	-	-	0.3 ppm	1.5 (mg/m ³)	-
Acrylic polymer (dust, particles)	-	[3 -10] (mg/m ³) ^d	-	-	-
Acrylic polymer (methyl methacrylate, CAS No: 80-62-6)	50 ppm	208 (mg/m ³)	100 ppm	416 (mg/m ³)	-
Silica dust	-	[4 -10] (mg/m ³)	-	-	Time Weighted Average (TWA):(EH40 WEL)

[respirable dust - inhalable dust]

Biological Exposure Indices: None

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber or nylon gloves.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced. The use of chemical resistant gloves such as Neoprene or Natural Rubber is recommended

Eye protection:

Wear protective glasses.

Body protection:

Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Gel

Colour: Colourless

Odour: Colourless

Odour threshold: N.A./N.A.

pH: 6

-Continued on next page.-

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C-FLEX (Component A)



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Melting point: N.A./N.A.
Boiling Point: 72-76 °C (2mbar)
Flash point: N.A./N.A.
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.
Relative density: 1.18 g/cm³
Solubility: N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Qualitative solubility (solvent: water): Polymerises in presence of water
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

10.2 Chemical stability.

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions.

See section 10.1.

10.4 Conditions to avoid.

Stable under normal conditions of storage and use.

10.5 Incompatible materials.

None if used properly.

10.6 Hazardous decomposition products.

None known if used as indicated.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC.

Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

STOT-single exposure:

May cause respiratory irritation.

Inhalative toxicity:

Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals. In dry atmosphere with < 50% humidity, vapours may irritate the eyes and the respiratory system.

Skin irritation:

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Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 (rabbit) > 2000mg/kg. Due to polymerisation at the skin surface allergic reaction is unlikely to occur.

Hazardous components CAS-No.	Result	Exposure	Species	Method
4-Methoxyphenol 150-76-5	No skin irritation	24 h	Rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Eye irritation:

Irritating to eyes. Liquid product will bond eyelids. In a dry atmosphere (RH < 50%) vapours may cause irritation and lachrymatory effect.

Hazardous components CAS-No.	Result	Exposure	Species	Method
4-Methoxyphenol 150-76-5	Moderate eye irritation	24 h	Rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Acute oral toxicity:

Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure	Species	Method
4-Methoxyphenol 150-76-5	LD50	> 2,000 mg/kg	Dermal	-	Rat	Directive 67/548/EEC, Annex V, B.3

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Exposure	Species	Method
4-Methoxyphenol 150-76-5	May cause sensitisation by skin contact	Guinea pig maximisation test	Guinea pig	OECD Guideline 406

Germ cell mutagenicity:

No data available/Not applicable.

Repeated dose toxicity:

No data available/Not applicable.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

General ecological information:

Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Ecotoxicity:

Do not empty into drains / surface water / ground water.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure	Species	Method
4-Methoxyphenol 150-76-5	LC50	28.5 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

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4-Methoxyphenol 150-76-5	EC50	3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-Methoxyphenol 150-76-5	EC50	54.7 mg/l	Algae	72 h	Selenastrum Capricornutum (new name: Pseudokirchner ella subcapitata)	OECD Guideline 201
4-Methoxyphenol 150-76-5	NOEC	2.96 mg/l	Algae	72 d	Selenastrum capricornutum (new name: Pseudokirchner ella subcapitata)	OECD Guideline 201

12.2 Persistence and degradability.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
4-Methoxyphenol 150-76-5	Readily biodegradable	Aerobic	86 %	OECD Guideline 301D

12.3 Bioaccumulative potential.

No data available/Not applicable.

12.4 Mobility in soil.

Cured adhesives are immobile.

12.5 Results of PBT and vPvB assessment.

No data available/Not applicable.

12.6 Other adverse effects.

No data available/Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Product disposal:

Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions. Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

Waste code:

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

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Air: Transport by plane: ICAO/IATA.
Transport document: Airway bill.

14.1 UN number.

ADR/RID: Not dangerous goods
ADNR: Not dangerous goods
IMDG: Not dangerous goods
IATA: UN3334

Please note that Cyanoacrylates are restricted for air transportation in packages containing more than 500g. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles. C-FLEX 10g and 50g are not restricted for air transportation.

14.2 UN proper shipping name.

ADR/RID: Not dangerous goods
ADNR: Not dangerous goods
IMDG: Not dangerous goods
IATA: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Please note that Cyanoacrylates are restricted for air transportation in packages containing more than 500g. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles. C-FLEX 10g and 50g are not restricted for air transportation.

14.3 Transport hazard class(es).

ADR/RID: Not dangerous goods
ADNR: Not dangerous goods
IMDG: Not dangerous goods
IATA: 9

Please note that Cyanoacrylates are restricted for air transportation in packages containing more than 500g. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles. C-FLEX 10g and 50g are not restricted for air transportation.

14.4 Packing group.

ADR/RID: Not dangerous goods
ADNR: Not dangerous goods
IMDG: Not dangerous goods
IATA: III

Please note that Cyanoacrylates are restricted for air transportation in packages containing more than 500g. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles. C-FLEX 10g and 50g are not restricted for air transportation.

14.5 Environmental hazards.

ADR/RID: no
ADNR: no
IMDG Marine pollutant: no
IATA: no

14.6 Special precautions for user.

No data available/Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

No data available/Not applicable

SECTION 15: REGULATORY INFORMATION.

This information is shown on the current Safety Data Sheet for the Preparation.

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

Volatile organic compound (VOC)

VOC content (p/p): <3 %
(1999/13/EEC)

15.2 Chemical safety assessment.

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For this product a chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION.

The labelling of the product is indicated in Sections 2 and 3. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

Carc.	Carcinogenicity
Muta.	Germ cell mutagenicity
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment with chronic effects.
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child .
H361d	Suspected of damaging the unborn child
H412	Harmful to aquatic life with long-lasting effects
H413	May cause long lastint harmful effects to aquatic life
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH208	Contains 4-Methoxyphenol. May produce an allergic reaction.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Abbreviations and acronyms used:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CEN:	European Committee for Standardization.
DMEL:	Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL:	Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
PPE:	Personal protection equipment.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Code for Dangerous Goods.
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

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(in accordance with Regulation (EU) 2015/830)

C-FLEX (Component B)



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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: C-FLEX Part B

1.2 Relevant identified uses of the mixture and uses advised against.

Activator

Uses advised against:
Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Sailing Technologies, S.L.**
Address: C/ CALATRAVA Nº 68, BAJOS 3
City: 08017 BARCELONA
Province: BARCELONA
Telephone: +34 932 693 348
E-mail: info@sailingtechnologies.com
Web: www.sailingtechnologies.com

1.4 Emergency telephone number: +34 932 693 348 (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Not a hazardous substance or mixture according to Regulation CLP (EC) No. 1272/2008

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards.

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

General chemical description: activator.

Declaration of the ingredients according to Regulation CLP (EC) No. 1272/2008:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
CAS No: 67762-90-7	Silicones and siloxanes, dimethyl-, reaction products with silica	1 - 10 %	-	-

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

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SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

General advice:
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:
No known effects

In case of skin contact:
No known effects

In case of eye contact:
No known effects

If swallowed:
No known effects

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

See section 4.1

SECTION 5: FIREFIGHTING MEASURES.

5.1 Extinguishing media.

Suitable extinguishing media:

Use alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media:

None known

5.2 Special hazards arising from the mixture.

None known

5.3 Advice for firefighters.

No data available / Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

No data available/ Not applicable

6.2 Environmental precautions.

No adverse effects for the environment are known.

6.3 Methods and material for containment and cleaning up.

For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4 Reference to other sections.

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See advice in section 8.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

No data available / Not applicable.

7.2 Conditions for safe storage, including any incompatibilities.

No data available / Not applicable.

7.3 Specific end use(s).

Activator.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Occupational Exposure Limits (OEL):

Substance	Long-term exposure limit (8-hr TWA reference period)	Short-term exposure limit (15 minute reference period)	Remarks
Silica dust	4 (mg/m ³)	-	-
	10 (mg/m ³)	-	-

Biological Exposure Indices:
None

8.2 Exposure controls.

Respiratory protection:

No special protection is needed

Hand protection:

No special protection is needed

Eye protection:

No special protection is needed

Skin protection:

No special protection is needed

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid
Colour: Colourless
Odour: Odourless
pH: N.A./N.A.
Melting point: N.A./N.A.
Boiling Point: N.A./N.A.
Flash point: < 160 °C (320°F)
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.

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Relative density: N.A./N.A.
Solubility: N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: Practically insoluble
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A. = Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

Stable under recommended storage conditions

10.2 Chemical stability.

See section 10.1

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

No data available/Not applicable

10.5 Incompatible materials.

No data available/Not applicable.

10.6 Hazardous decomposition products.

No data available/Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC.
Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Acute oral toxicity:
No data available

Aspiration hazard:
No data available

Skin irritation:
No data available

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Eye irritation:
No data available

Sensitization:
No data available

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

No data available/Not applicable.

12.2 Persistence and degradability.

No data available/Not applicable.

12.3 Bioaccumulative potential.

No data available/Not applicable.

12.4 Mobility in soil.

No data available/Not applicable.

12.5 Results of PBT and vPvB assessment.

No data available/Not applicable.

12.6 Other adverse effects.

No data available/Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS.

Product disposal:

Dispose of in accordance with local and national regulations.
Contribution of this product to waste is very insignificant in comparison to article in which it is used

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.
Disposal must be made according to official regulations.

Waste code:

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number.

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

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14.2 UN proper shipping name.

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

14.3 Transport hazard class(es).

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

14.4 Packing group.

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

14.5 Environmental hazards.

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

14.6 Special precautions for user.

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

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

VOC content < 3 %
(1999/13/EC)

15.2 Chemical safety assessment.

No data available/Not applicable

SECTION 16: OTHER INFORMATION.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. This safety data sheet was prepared in accordance with Regulation (EC) No. 1272/2008

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

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