

AFINITICA® FURY

SDB n°: 242957

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier

AFINITICA® FURY

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

Intended use: Instant Adhesive

1.3. Details of the supplier of the safety data sheet

Afinitica Technologies S.L.
Edificio Eureka, Parc de Recerca UAB
08193 Bellaterra (Barcelona)

España
Telephone number: +34 93 143 1952
info@afinitica.com

1.4. Emergency telephone number

Afinitica Technologies S.L. +34 93 143 1952

Afinitica Technologies (24 h) + 34 694 412 618

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation CLP (EC) No. 1272/2008

Skin irritation (Category 2)
Eye irritation (Category 2)
Skin sensitization (Category 1)
Specific target organ toxicity – single exposure (Category 3)

2.2. Label elements

Labelling according to Regulation CLP (EC) No. 1272/2008

Pictograms



Signal Word

Warning.

Hazard statements

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
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

Prevention

P261	Avoid breathing vapours.
P280	Wear protective gloves.

Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Disposal

P501	Dispose of waste and residues in accordance with local authority requirements.
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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

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

Hazardous component	CAS-No.	EC-No.	Content	Classification
2-Methoxyethyl cyanoacrylate	27816-23-5	248-670-5	>70 – ≤85 %	-
Poly(oxy-1,2-ethanediyl), α, α'-((1-methylethylidene)di-4,1-phenylene)bis(ω-((1-oxo-2-propen-1-yl)oxy)-	64401-02-1	-	1 – 10 %	Skin irrit. 2; H315 Eye irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 1; H411
Acrylic polymer	-	-	1 – 10 %	-
4-Methoxyphenol	150-76-5	205-769-8	0.1 – < 1 %	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1; H317 Repr. 2; H361d Aquatic Chronic 3; H412
2,2'-Methylenebis(6-tert-butyl-4-methylphenol)	119-47-1	204-327-1	0.1 – < 1 %	Repr. 2; H361 Aquatic Chronic 4; H413

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

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

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

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

Extinguishing media which must not be used for safety reasons:

None known.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx).

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4. Further information

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 materials 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

Valid for
 Great Britain

Occupational Exposure Limits (OEL):

Substance	Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Remarks
	ppm	mg/m ³	ppm	mg/m ³	
2-Methoxyethyl cyanoacrylate 27816-23-5	-	-	0.3	1.5	-
Acrylic polymer (dust, particles)	-	3 (respirable dust)	-	-	-
		10 (inhalable dust)			
Acrylic polymer	50	208	100	416	-

(methyl methacrylate, 80-62-6)					
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Biological Exposure Indices:

None

8.2. Exposure controls**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

Liquid

Odour	Characteristic
pH	No data available/Not applicable.
Initial boiling point	No data available/Not applicable.
Flash point	No data available/Not applicable.
Decomposition temperature	No data available/Not applicable.
Vapour pressure	No data available/Not applicable.
Density	1.1-1.2 g/cm ³ .
Bulk density	No data available/Not applicable.
Viscosity	No data available/Not applicable.
Viscosity (kinematic)	No data available/Not applicable.
Explosive properties	No data available/Not applicable.
Qualitative solubility (solvent: water)	Polymerises in presence of water.
Solidification temperature	No data available/Not applicable.
Melting point	No data available/Not applicable.
Flammability	No data available/Not applicable.
Auto-ignition temperature	No data available/Not applicable.
Explosive limits	No data available/Not applicable.
Partition coefficient n-octanol/water	No data available/Not applicable.
Evaporation rate	No data available/Not applicable.
Vapour density	No data available/Not applicable.
Oxidizing properties	No data available/Not applicable.

9.2. Other safety information

No data available/Not applicable

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:

No data available/Not applicable.

Inhalative toxicity:

No data available/Not applicable.

Skin irritation:

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 time	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 time	Species	Method
4-Methoxyphenol 150-76-5	Moderate eye irritation	24 h	Rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	LD50	> 10,000 mg/kg	Oral	-	Rat	-

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
4-Methoxyphenol 150-76-5	LD50	> 2,000 mg/kg	Dermal	-	Rat	Directive 67/548/EEC, Annex V, B.3
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	LD50	> 10,000 mg/kg	Dermal	-	Rat	-

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Exposure time	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:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	Negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without	-	OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Reproductive toxicity:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	NOAEL P = 12,5 mg/kg	-	Rat	OECD Guideline 421

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 time	Species	Method
4-Methoxyphenol 150-76-5	LC50	28.5 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
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: Pseudokirchnerella subcapitata)	OECD Guideline 201
4-Methoxyphenol 150-76-5	NOEC	2.96 mg/l	Algae	72 d	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	EC50	> 10,000 mg/l	Bacteria	3 h	-	OECD Guideline 209

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
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	Under test conditions no biodegradation observed	Aerobic	0 %	OECD Guideline 301D

12.3. Bioaccumulative potential

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2,2'- Methylenebis(6- tert-butyl-4- methylphenol) 119-47-1	6,25				20 °C	OECD Guideline 107

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

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.

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.

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.

14.4. Packaging 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.

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 73/78 and the IBC Code

No data available/Not applicable

SECTION 15: Regulatory information

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

VOC Content < 3 %
(1999/13/EEC)

15.2. Chemical Safety Assessment

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:

Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation.
STOT SE	Specific target organ toxicity – single exposure.
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.

Further 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.