

AFINITICA® 3DFix

SDB nº: 242950

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Created: JULY 2015

## SECTION 1: Product and company identification

### 1.1. Product identifier

AFINITICA® 3DFix

### 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](mailto: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

#### 2.1.1. GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4)  
Eye irritation (Category 2B)

### 2.2. GHS label elements, including precautionary statements

Pictogram	None.
Signal Word	Warning.
Hazard statements	

H227 Combustible liquid  
H320 Causes eye irritation.

## Precautionary statements

P210 Keep away from heat – No smoking.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves / eye protection.  
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.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of container to an approved waste disposal plant.

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

### 2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

None.

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

General chemical description: Cyanoacrylate adhesive

#### 3.2.1. Declaration of the ingredients in accordance with 29 CFR 1910 (OSHA HCS):

Hazardous component	CAS-No.	EC-No.	Content	Classification
2-Methoxyethyl cyanoacrylate	27816-23-5	248-670-5	>70 – ≤98 %	Flam. Liq. 4; H227 Eye irrit. 2B; H320
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 and Precautionary 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. Move out of dangerous area.

#### 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

Skin	redness, inflammation
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### 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.

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

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

## 5.4. Further information

Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Remove all sources of ignition.  
For personal protection, see Section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. 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

Occupational Exposure Limits (OEL):

Substance	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Methoxyethyl cyanoacrylate 27816-23-5	-	-	-	0.2 ppm TWA

Biological occupational exposure limits:

None

### 8.2. Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

**Eye/face protection:**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

**Skin protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:**

Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:**

Ensure adequate ventilation.

**Control of environmental exposure:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid
Odour	Odourless.
pH	No data available/Not applicable
Initial boiling point	72-76 °C (2mbar)
Flash point	No data available/Not applicable.
Decomposition temperature	No data available/Not applicable
Vapour pressure	No data available/Not applicable
Density	1.09 g/cm <sup>3</sup> .

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

No data available/Not applicable.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No data available/Not applicable.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Reducing agents, water, amines, alcohols, alkali metals, oxidizing agents.

### 10.6. Hazardous decomposition products

Other decomposition products – no data available.  
In the event of fire: see Section 5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Aspiration hazard:**

Irritating to respiratory system

**Acute toxicity:**

- 4-Methoxyphenol 150-76-5 :  
ipr-mus LD50:250 mg/kg  
orl-rat LD50:1600 mg/kg
- 2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1:  
orl-rat LD50:4880 mg/kg

**Acute dermal toxicity:**

No data available/Not applicable.

**Skin corrosion/irritation:**

- 4-Methoxyphenol 150-76-5 :  
skn-rbt 6 g/12D-I MLD

**Serious eye damage/irritation:**

- 2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1:  
eye-rbt 100 mg/24H MOD

**Respiratory or skin sensitization:**

No data available/Not applicable.

**Germ cell mutagenicity:**

- 4-Methoxyphenol 150-76-5 :  
dni-hmn-lym 25 umol/L

**Repeated dose toxicity:**

No data available/Not applicable.

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	LC50	>5.0 mg/l	Fish	96 h	Oryzias latipes	-
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	EC50	>4.8 mg/l	Crustacea	48 h	Daphnia magna	-
2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1	EC50	>5.0 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	-

### 12.2. Persistence and degradability

- 4-Methoxyphenol 150-76-5 :  
86% (by BOD), 100% (by HPLC), 99% (by TOC)
- 2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1:  
0 % (by BOD), 1 % (by HPLC)

### 12.3. Bioaccumulative potential

- 4-Methoxyphenol 150-76-5 :  
9 (BCF)
- 2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 119-47-1:  
400 - 840 (conc. 2 ug/L), 320 - 780 (conc. 0.2 ug/L)



## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6. Other adverse effects

No data available.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

### Product disposal:

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Disposal of uncleaned packages:

Dispose of as unused product.

# SECTION 14: Transport information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

## U.S. Department of Transportation Ground (49 CFR)

Proper shipping name	Combustible liquid, n.o.s. (Cyanoacrylate ester)
Hazard class or division	Combustible liquid
Identification number	NA 1993
Packing group	III
Exceptions	(Not more than 450 Liters), Unrestricted.

## International Air Transportation (ICAO/IATA)

Proper shipping name	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
Hazard class or division	9
Identification number	UN 3334
Packing group	None.

## Water transportation (IMO/IMDG)

Proper shipping name	Not regulated.
Hazard class or division	None.
Identification number	None.
Packing group	None.

## SECTION 15: Regulatory information

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification</b>	None above reporting De Minimis.
<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312 Hazards</b>	Immediate Health, Delayed Health, Fire, Reactive.
<b>California Proposition 65</b>	This product does not contain any chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. 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
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.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of container to an approved waste disposal plant.

## 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 29 CFR 1910 (OSHA HCS).