

Afinitica Adhesive Welding Part A
 Supersedes Date: 14-Sep-2020

Revision Date: 14-Sep-2020
 Revision Number 1

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

1.1. Product Identifier

Product Name Afinitica Adhesive Welding Part A
Pure substance/mixture Mixture

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

Recommended use Adhesive. 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
 Afinitica Technologies s.l.
 Edifici Eureka, Campus UAB
 08193 Bellaterra
 Barcelona, Spain
 Tel: +34 611428953

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone No information available

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.

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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 fumes.
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.

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) This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

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	80 - 100	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

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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 $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	If irritation persists or eye and/or skin remains bonded: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation	Get medical attention immediately if symptoms occur. Remove to fresh air.
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.
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. 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.

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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_x).

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

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

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

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)
Adhesive. This product is a cyanoacrylate-based adhesive.

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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

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

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. Glove thickness > 0.4 mm. Latex gloves. Polyethylene. Polypropylene. Glove thickness \geq 0.15 mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. 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	Paste / Gel Liquid
Appearance	Gel
Colour	Colourless
Odour	Irritating
Odour threshold	No information available

Property	Values	Remarks • Method
pH	Not applicable .	
Melting point / freezing point	No data available	
Boiling point / boiling range	165 °C	
Flash point	104 °C	
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 limits	No data available	

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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	104 °C °C	
Decomposition temperature		
Kinematic viscosity	No data available	
Dynamic viscosity	130000 - 200000 mPa s	@ 25 °C
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
VOC Content (%)	28 g/L
Density	1.11 g/ml

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.

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. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

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respiratory tract.

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.

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	=298 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.

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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.

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'-methylene-di-p-cresol (119-47-1)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days		0 % Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol 119-47-1	>3.6	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

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

Chemical name	PBT and vPvB assessment
ethyl-2-cyanoacrylate 7085-85-0	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.

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.

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)

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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

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

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
ethyl-2-cyanoacrylate 7085-85-0	RG 66 RG 65
1,4-Benzenediol 123-31-9	RG 65

Germany

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Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

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

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Indication of changes

Revision note Not applicable.

Training Advice No information available

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Further information No information available

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

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