

AFINITICA® ADHESIVE WELDING SUPERFLEX Part A

SDB n°: 242940

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SECTION 1: Product and company identification

1.1. Product identifier

AFINITICA® ADHESIVE WELDING SUPERFLEX Part A

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

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 |
| Acrylic polymer | - | - | 1 – 10 % | - |
| Silicones and siloxanes, dimethyl-, reaction products with silica | 67762-90-7 | - | 1 – 10 % | - |

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 (NOx)

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 |
| Silica dust | 10 mg/m ³ TWA (inhalable dust) | 15 mg/m ³ TWA (total dust) | - | - |
| | 3 mg/m ³ TWA (respirable fraction) | 5 mg/m ³ TWA (respirable fraction) | | |
| Acrylic polymer | - | 4 mg/m ³ (respirable dust) | - | - |
| | | 10 mg/m ³ (inhalable dust) | | |

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 | Gel |
| | Colourless |
| Odour | Odourless. |
| pH | No data available/Not applicable |
| Initial boiling point | 72-76 °C (2 mbar) |
| Flash point | No data available/Not applicable. |
| Decomposition temperature | No data available/Not applicable |
| Vapour pressure | No data available/Not applicable |
| Density | 1.18 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**

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

| | |
|--|---|
| TSCA 8 (b) Inventory Status | All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. |
| TSCA 12 (b) Export Notification | None above reporting De Minimis. |
| SARA 302 Components | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA 313 Components | 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. |
| SARA 311/312 Hazards | Immediate Health, Delayed Health, Fire, Reactive. |
| California Proposition 65 | This product contains a 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).