

AFINITICA® Active Spray

SDB n°: 242909

V4.0 (JULY 2015)

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SECTION 1: Product and company identification

1.1. Product identifier

AFINITICA® Active Spray

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

Intended use: Cyanoacrylate activator.

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 93 580 1974
info@afinitica.com

1.4. Emergency telephone number

Afinitica Technologies S.L. + 34 93 580 19 74

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 2)
Eye irritation (Category 2A)
Specific target organ toxicity – single exposure (Category 3), Central nervous system.

For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. GHS label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Precautionary statements

P210

Keep away from heat – No smoking.

P233

Keep container tightly closed.

P240

Ground container and receiving equipment.

P241

Use explosion-proof equipment.

P242

Use only non-sparking tools.

P243

Take precautionary measures against static discharge.

P261

Avoid breathing vapours.

P264

Wash skin thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P273

Avoid release to the environment.

P280

Wear protective gloves / eye protection.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312

Call a POISON CENTER or doctor / physician if you feel unwell.

P321

Specific treatment (see supplemental first aid and instructions on this label).

P331

Do NOT induce vomiting.

P332 + P313

If skin irritation occurs: 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.

P391

Collect spillage.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

P403 + P235

Store in a well-ventilated place. Keep cool.

P405

Store locked up.

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

May form explosive peroxides.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

General chemical description: Cyanoacrylate activator.

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

Hazardous component	CAS-No.	EC-No.	Content	Classification
2-Propanol	67-63-0	200-661-7	>99 %	Flam. Liq. 2; H225 Eye irrit. 2A; H319 STOT SE 3; H336

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.

If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

5.2. Special hazards arising from the substance or mixture

Carbon oxides.

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13).

6.4. Reference to other sections

For disposal see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see Section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully released and kept upright to prevent leakage.

Handle and store under inert gas. Hygroscopic.

7.3. Specific end use(s)

Surface cleaner and adhesion activator.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL):

Substance	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Propanol 67-63-0	200 ppm TWA	400 ppm TWA 980 mg/m ³ TWA	-	-
	400 ppm STEL	500 ppm STEL 1,225 mg/m ³ STEL	-	-

Biological occupational exposure limits:

Substance	Value on basis: ACGIH BEI	Parameters	Biological specimen	Remarks
2-Propanol 67-63-0	40 mg/L	Acetone	Urine	End of shift at end of workweek

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:

Face shield and safety glasses. 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. Flame retardant antistatic protective 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:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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 Colourless
Odour	Alcohol-like.
pH	No data available/Not applicable
Initial boiling point	82 °C (180 °F)
Flash point	12 °C (53.6 °F), closed cup.
Decomposition temperature	No data available/Not applicable
Vapour pressure	43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F). 58.7 hPa (44.0 mmHg) at 25.0 °C (77.0 °F).
Density	0.785 g/mL at 25 °C (77 °F).
Bulk density	No data available/Not applicable
Viscosity	No data available/Not applicable
Viscosity (kinematic)	No data available/Not applicable
Explosive properties	Upper explosion limit: 12.7 % (V) Lower explosion limit: 2 % (V)
Qualitative solubility (solvent: water)	No data available/Not applicable.
Solidification temperature	No data available/Not applicable
Melting point	-89.5 °C (-129.1 °F).
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	3.0
Vapour density	No data available/Not applicable
Oxidizing properties	No data available/Not applicable

9.2. Other safety information

Surface tension 20.8 mN/m at 25.0 °C (77.0 °F).

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

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Oxidizing agents, acid anhydrides, aluminium, halogenated compounds, acids.

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:

No data available

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2-Propanol 67-63-0	LD50	5,045 mg/kg	Oral	-	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2-Propanol 67-63-0	LD50	12,800 mg/kg	Dermal	-	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
2-Propanol 67-63-0	LC50	16,000 mg/kg	Inhalation	-	rat	-

Skin corrotion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Propanol 67-63-0	Mild skin irritation	-	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Propanol 67-63-0	Eye irritation	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol).

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.

Reproductive toxicity:

No data available

Specific target organ toxicity – single exposure:

Inhalation, Oral – May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure:

No data available.

Aspiration hazard:

No data available

Additional information:

RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, narcosis, drowsiness. Overexposure may cause mild, reversible liver effects. Aspiration may lead to: Lung oedema, Pneumonia.

Kidney – Irregularities – Based on human evidence.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous components CAS-No.	Toxicity	Value type	Value	Route of application	Exposure time	Species
2-Propanol 67-63-0	Toxicity to fish	LC50	9,640.00 mg/L		96h	Pimephales promelas (fathed minnow)
2-Propanol 67-63-0	Toxicity to daphnia and other aquatic invertebrates	EC50	5,102.00 mg/L		24h	Daphnia magna (Water flea)
2-Propanol 67-63-0	Toxicity to daphnia and other aquatic invertebrates	EC50	6,851 mg/L	Immobilization	24h	Daphnia magna (Water flea)
2-Propanol 67-63-0	Toxicity to algae	EC50	2,000.00 mg/L		72h	Desmodesmus subspicatus (green algae)
2-Propanol 67-63-0	Toxicity to algae	EC50	1,000.00 mg/L		24h	Algae

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

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:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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	Isopropanol
Hazard class or division	3
Identification number	UN 1219
Packing group	II
Marine pollutant	No
Poison Inhalation Hazard	No

International Air Transportation (ICAO/IATA)

Proper shipping name	Isopropanol
Hazard class or division	3
Identification number	UN 1219
Packing group	II

Water transportation (IMO/IMDG)

Proper shipping name	ISOPROPANOL
Hazard class or division	3
Identification number	UN 1219
Packing group	II

EMS-No
Marine pollutant

F-E, S-D
No

SECTION 15: Regulatory information

United States Regulatory Information

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313: 2-Propanol (CAS # 67-63-0). Revision Date: 1987-01-01.
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
Massachusetts Right To Know Components	2-Propanol (CAS # 67-63-0). Revision Date: 1987-01-01.
Pennsylvania Right To Know Components	2-Propanol (CAS # 67-63-0). Revision Date: 1987-01-01.
New Jersey Right To Know Components	2-Propanol (CAS # 67-63-0). Revision Date: 1987-01-01.
California Proposition 65	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:

Flam. Liq.	Flammable liquids.
Eye irrit.	Eye irritation.
STOT SE	Specific target organ toxicity – single exposure.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
P210	Keep away from heat – No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapours.

P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor / physician if you feel unwell.
P321	Specific treatment (see supplemental first aid and instructions on this label).
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: 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.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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).