

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008 This SDS is for generic information purposes and does not reflect required country specific information for OEL

Afinitica BEMO 64+ Supercedes Date: 25-Aug-2021 Revision date 25-Aug-2021 Revision Number 1

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

1.1. Product identifier

Product NameAfinitica BEMO 64+Pure substance/mixtureMixture

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

Recommended use	This product is a cyanoacrylate-based adhesive.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

<u>Company Name</u> 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 sensitisation	Category 1B - (H317)
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2.2. Label elements

Contains Propylidynetrimethanol, ethoxylated, esters with acrylic acid, N,N'-Ethylenebis(12-hydroxyoctadecanamide), Mequinol



Signal word Warning

Hazard statements

H317 - May cause an allergic skin reaction.

EU Specific Hazard Statements

EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

Afinitica BEMO 64+ Supercedes Date: 25-Aug-2021

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P261 - Avoid breathing vapours

P280 - Wear protective gloves and eye/face protection

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Polymerises with evolution of heat. Will bond to skin. Bonds skin and eyes in seconds.

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
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	500-066-5	28961-43-5	5 - <10	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)		01-2119489900- 30-XXXX
N,N'-Ethylenebis(12-hyd roxyoctadecanamide)	204-613-6	123-26-2	1 - <2.5	Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)		01-2119978265- 26-XXXX
Mequinol	205-769-8	150-76-5	0.1- <1	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Repr. 2 (H361) Aquatic Chronic 3 (H412)		01-2119541813- 40-XXXX
6,6'-di-tert-butyl-2,2'-met hylenedi-p-cresol	204-327-1	119-47-1	0.1- <1	Repr. 2 (H361f) Aquatic Chronic 4 (H413)		[8]

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 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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures 4.1. Description of first aid measures **General advice** Show this safety data sheet to the doctor in attendance. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention. Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Inhalation 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. Polymerises with evolution of heat. Wash with soap and water. May cause an allergic Skin contact skin reaction. In the case of skin irritation or allergic reactions see a doctor. 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. 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. Bonded areas may be gently peeled apart using a blunt object such as a spoon. Ingestion Ensure breathing passages are not obstructed. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor. 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 Itching. Rashes. Hives. Symptoms 4.3. Indication of any immediate medical attention and special treatment needed Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Use extinguishing measures that are appropriate to local circumstances and the Suitable Extinguishing Media surrounding environment. Unsuitable extinguishing media No information available. 5.2. Special hazards arising from the substance or mixture Specific hazards arising from the Product is or contains a sensitiser. May cause sensitisation by skin contact. Bonds skin chemical and eyes in seconds. Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). 5.3. Advice for firefighters Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. precautions for fire-fighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. See section 8 for more information.	
For emergency responders	Use personal protection recommended in Section 8.	
6.2. Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
6.3. Methods and material for cont	ainment 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.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
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	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Use personal protection equipment. See section 8 for more information.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep from freezing.
Recommended storage temperature	For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C.
7.3. Specific end use(s)	
Specific use(s)	

This product is a cyanoacrylate-based adhesive.

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

Afinitica BEMO 64+ Supercedes Date: 25-Aug-2021

SDS for further information.

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Propylidynetrimethanol, etho	Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	16.2 mg/m³	
worker Long term Systemic health effects	Dermal	0.8 mg/kg bw/d	

Derived No Effect Level (DN	EL)		
Propylidynetrimethanol, eth	oxylated, esters with acrylic	c acid (28961-43-5)	
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	4.9 mg/m ³	
Consumer Long term Systemic health effects	Oral	1.4 mg/kg	
Consumer Long term Systemic health effects	Dermal	0.5 mg/m³	

Predicted No Effect Concentration No information available. (PNEC)

Predicted No Effect Concentration (PNEC)		
Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	
Freshwater	0.00195 mg/l	
Marine water	0.000195 mg/l	
Freshwater - intermittent	0.0195 mg/l	
Freshwater sediment	0.0082 mg/kg dry weight	
Marine sediment	0.00082 mg/kg dry weight	
Sewage treatment plant	10 mg/l	
Soil	0.00587 mg/kg dry weight	

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas.

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 >= 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.

Revision date 25-Aug-2021 Revision Number 1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Colour Odour Odour threshold	Paste / Gel Liquid Gel Colourless to White Odourless No information available	
Property pH pH (as aqueous solution) Melting point / freezing point Initial boiling point and boiling	Values No data available No data available No data available 183 °C	Remarks • Method
range Flash point Evaporation rate Flammability Flammability Limit in Air	87 °C No data available Not applicable for liquids .	
Upper flammability or explosive limits Lower flammability or explosive limits Vapour pressure		
Relative vapour density Relative density Water solubility Solubility(ies) Partition coefficient	No data available No data available Immiscible in water No data available No data available	Polymerisation can occur
Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	No data available No data available No data available 17000 - 50000 mPa s No data available	
Oxidising properties 9.2. Other information Solid content (%)	No data available No information available	
VOC Content (%) Density	1.14 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	

Afinitica BEMO 64+ Supercedes Date: 25-Aug-2021

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 None under normal use conditions. Stable under recommended storage conditions. products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Specific test data for the substance or mixture is not available. Bonds skin and eyes in seconds.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Bonds skin and eyes in seconds.
Ingestion	Based on available data, the classification criteria are not met.
Symptoms related to the physical	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives.

Numerical measures of toxicity

Acute toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylidynetrimethanol,	> 2000 mg/kg (Rattus)	> 13 g/kg (Oryctolagus	
ethoxylated, esters with acrylic		cuniculus)	
acid			
28961-43-5			
Mequinol	=860 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus	
150-76-5		cuniculus)	
6,6'-di-tert-butyl-2,2'-methylene	>10000 mg/kg (Rattus)	> 10000 mg/kg (Oryctolagus	
di-p-cresol		cuniculus)	
119-47-1			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitisation	May cause sensitisation by skin contact.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
STOT - single exposure	Based on available data, the classification criteria are not met.	
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.	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
Endocrine disrupting properties	No information available.	

- 11.2.2. Other information
- Other adverse effects N

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Propylidynetrimethanol, ethoxylated, esters with acrylic acid 28961-43-5				EC50: 48 h 70.7 mg/l (Daphnia magna) OECD 202		
Mequinol 150-76-5	(OECD 201)	LC50: =84.3mg/L (96h, Pimephales promelas) LC50: =28.5mg/L (96h, Oncorhynchus mykiss)		-		
6,6'-di-tert-butyl-2,2'-m ethylenedi-p-cresol 119-47-1	-	LD50 (96h) >5mg/L	-	-		

12.2. Persistence and degradability

Afinitica BEMO 64+

Supercedes Date: 25-Aug-2021

Persistence and degradability No information available.

Component Information			
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (119-47-1)			
Method	Exposure time	Value	Results
OECD Test No. 301C: Ready	28 days		0 % Not readily
Biodegradability: Modified MITI Test	-		biodegradable
(I) (TG 301 C)			_

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Propylidynetrimethanol, ethoxylated,	2.89	-
esters with acrylic acid		
28961-43-5		
Mequinol	1.3	-
150-76-5		
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	>3.6	840
119-47-1		

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Propylidynetrimethanol, ethoxylated, esters with acrylic acid 28961-43-5	The substance is not PBT / vPvB
N,N'-Ethylenebis(12-hydroxyoctadecanamide) 123-26-2	The substance is not PBT / vPvB
Mequinol 150-76-5	The substance is not PBT / vPvB
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1	The substance is not PBT / vPvB

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 in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
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:	Keep from freezing.
Land transport (ADR/RID) 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special Provisions	Not regulated Not regulated Not regulated Not applicable None
IMDG 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant 14.6 Special Provisions 14.7 Transport in bulk according	Not regulated Not regulated Not regulated Not regulated NP None to Annex II of MARPOL and the IBC Code Not applicable
Air transport (ICAO-TI / IATA-DGR 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special Provisions Limited Quantity (LQ) ERG Code	UN3334 Aviation regulated liquid, n.o.s (2-Propenoic acid, 2-cyano-, 2-methoxyethyl ester) 9 III UN3334, Aviation regulated liquid, n.o.s (2-Propenoic acid, 2-cyano-, 2-methoxyethyl ester), 9, III Not applicable A27 30 kg G 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 >=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).

Afinitica BEMO 64+ Supercedes Date: 25-Aug-2021

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
Propylidynetrimethanol, ethoxylated, esters with acrylic acid 28961-43-5	RG 65
Mequinol 150-76-5	RG 65

<u>Germany</u>

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

DenmarkRegistration number(s) (P-no.)No information availableNorwayRegistration number(s) (PRN-no.)No information available

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

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H361 - Suspected of damaging fertility or the unborn child

H361f - Suspected of damaging fertility

Afinitica BEMO 64+ Supercedes Date: 25-Aug-2021

H412 - Harmful to aquatic life with long lasting effects H413 - May cause long lasting harmful effects to aquatic life

Legend TWA STEL Ceiling * SVHC PBT vPvB STOT PE	TWA (time-weighted average) STEL (Short Term Exposure Limit) Ceiling Limit Value Skin designation Substance(s) of Very High Concern Persistent, Bioaccumulative, and Toxic (PBT) Chemicals Very Persistent and very Bioaccumulative (vPvB) Chemicals
vPvB STOT RE	
STOT SE EWC	Specific target organ toxicity - Single exposure European Waste Catalogue

Key literature references and sources for data No information available		
Prepared By	Product Safety & Regulatory Affairs	
Revision date	25-Aug-2021	
Indication of changes		
Revision note	Not applicable.	
Training Advice	No information available	
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