

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 Rapid Assembly Supercedes Date: 27-Mar-2021 Revision date 27-Mar-2021 Revision Number 1

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

#### 1.1. Product identifier

Product Name Afinitica Rapid Assembly

Pure substance/mixture Mixture

#### 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

### **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 Tel: +34 611428953

# **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**

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

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

P261 - Avoid breathing vapours

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/face 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

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P501 - Dispose of contents as hazardous waste in accordance with local/regional/national/international regulations

#### 2.3. Other hazards

Bonds skin and eyes in seconds. 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]		REACH registration number
ethyl-2-cyanoacrylate	230-391-5	7085-85-0	40 - <80	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'-met hylenedi-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 registration requirements according to REACH Title II

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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

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#### 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.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get

medical attention immediately if symptoms occur.

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. Do not rub

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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. 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).

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** May cause redness and tearing of the eyes. 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 No information available.

5.2. Special hazards arising from the substance or mixture

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Specific hazards arising from the

chemical

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Bonds skin and eyes in seconds.

Hazardous combustion products

Carbon oxides. Hydrogen chloride. Nitrogen oxides (NOx). Silicon dioxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

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gear. Use personal protection equipment.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate **Personal precautions** 

personnel to safe areas. Avoid contact with skin, eyes or clothing. See section 8 for more

information.

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.

Take up mechanically, placing in appropriate containers for disposal. Methods for cleaning up

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact Advice on safe handling

with skin, eyes or clothing. Use personal protection equipment. Do not eat, drink or smoke when using this product. See section 8 for more information. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory

equipment.

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using **General hygiene considerations** 

this product. Avoid contact with skin, eyes or clothing.

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)

This product is a cyanoacrylate-based adhesive.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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Other information Observe technical data sheet.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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# **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

Derived No Effect Level (DNEL)			
1,4-Benzenediol (123-31-9)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	3.33 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	2.1 mg/m³	

Derived No Effect Level (DNEL)				
1,4-Benzenediol (123-31-9)				
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Dermal	1.66 mg/kg bw/d		
Consumer Long term Systemic health effects	Inhalation	1.05 mg/m³		
Consumer Long term Systemic health effects	Oral	0.6 mg/kg bw/d		

**Predicted No Effect Concentration** No information available. **(PNEC)** 

Predicted No Effect Concentration (PNEC)		
1,4-Benzenediol (123-31-9)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	
Freshwater	0.57 μg/l	
Freshwater - intermittent	1.34 μg/l	
Marine water	0.057 μg/l	
Freshwater sediment	0.0049 mg/kg dry weight	
Marine sediment	0.00049 mg/kg dry weight	
Soil	0.00064 mg/kg dry weight	
Sewage treatment plant	0.71 mg/l	

#### 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

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**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

Polymerisation can occur

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**Skin and body protection Respiratory protection**Wear suitable protective clothing.
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 stateLiquidAppearanceLiquidColourColourlessOdourIrritating

Odour threshold No information available

Property Values Remarks • Method

pH No data available
pH (as aqueous solution) No data available
Melting point / freezing point No data available

Initial boiling point and boiling 80 °C

range

Flash point No data available Evaporation rate No data available

Flammability Not applicable for liquids .

Flammability Limit in Air

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Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableRelative vapour densityNo data availableRelative densityNo data availableWater solubilityInsoluble in water

Solubility(ies)

Partition coefficient

Autoignition temperature

Decomposition temperature

No data available
No data available
No data available

Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No data available

9.2. Other information

Solid content (%) No information available

**VOC Content (%)** 

**Density** No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

**Reactivity** No information available.

# 10.2. Chemical stability

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**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical

None.

impact

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

1

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

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Bonds skin and eyes in

seconds. Causes serious eye irritation. (based on components). May cause redness,

itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Bonds skin and eyes in

seconds. Causes skin irritation. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. 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**

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ethyl-2-cyanoacrylate	>5000 mg/kg (Rattus) OECD	>2000 mg/Kg (Oryctolagus	<21.1 mg/L (Rattus) 1 h
7085-85-0	401	cuniculus) OECD 402	

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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	390 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. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. 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	Muta. 2
123-31-9	

### Carcinogenicity

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

Chemical name	European Union
1,4-Benzenediol	Carc. 2
123-31-9	

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.

**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 No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life.

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Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
ethyl-2-cyanoacrylate	polymerizes	polymerizes	-	-		
7085-85-0						
6,6'-di-tert-butyl-2,2'-m	-	LD50 (96h)	-	-		
ethylenedi-p-cresol		>5mg/L				
119-47-1						
1,4-Benzenediol	EC50:	LC50 96 h =	EC50 = 0.038	EC50:	10	1
123-31-9	=0.335mg/L	0.044 mg/L	mg/L 15 min	=0.29mg/L (48h,		
	(72h,	(Oncorhynchus	EC50 = 0.0382	Daphnia magna)		
	Pseudokirchneri	mykiss	mg/L 30 min			
	ella subcapitata)	flow-through)	EC50 = 0.042			
	EC50:		mg/L 5 min			
	=13.5mg/L		EC50 = 23.75			
	(120h,		mg/L 60 min			
	Desmodesmus					
	subspicatus)					

# 12.2. Persistence and degradability

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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)
6,6'-di-tert-butyl-2,2'-methylenedi-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

### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
ethyl-2-cyanoacrylate	The substance is not PBT / vPvB
7085-85-0	PBT assessment does not apply
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	The substance is not PBT / vPvB
119-47-1	
1,4-Benzenediol	The substance is not PBT / vPvB
123-31-9	PBT assessment does not apply

### 12.6. Other adverse effects

Other adverse effects No information available.

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# 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**

#### Land transport (ADR/RID)

Not regulated 14.1 UN number or ID number 14.2 Proper Shipping Name Not regulated Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable None

14.6 Special Provisions

#### IMDG

14.1 UN number or ID 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 NΡ

14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

#### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN3334

14.2 Proper Shipping Name Aviation regulated liquid, n.o.s

14.3 Transport hazard class(es) 14.4 Packing group

Description UN3334, Aviation regulated liquid, n.o.s, 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** 

#### 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.

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#### 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	RG 66
7085-85-0	RG 65
1,4-Benzenediol	RG 65
123-31-9	

#### Germany

## 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

**Denmark** 

Registration number(s) (P-no.) No information available

Norway

Registration 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

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#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

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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 Limit Value Ceiling Skin designation

**SVHC** Substance(s) of Very High Concern

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals PBT vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure Specific target organ toxicity - Single exposure STOT SE

European Waste Catalogue **EWC** 

#### Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 27-Mar-2021

Indication of changes

Not applicable. **Revision note** 

**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

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** 

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