

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**EVO-STIK STRONG STUFF WATERPROOF ADHESIVE** 

Supercedes Date: 07-Feb-2019

Revision Date 07-Feb-2019 Revision Number 1

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

#### 1.1. Product Identifier

Product Name EVO-STIK STRONG STUFF WATERPROOF ADHESIVE

Pure substance/mixture Mixture

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

Recommended use Adhesives.
Uses advised against None known

### 1.3. Details of the supplier of the safety data sheet

### **Company Name**

Bostik Limited Common Rd ST16 3EH Stafford UK

Tel: +44 (1785) 27 26 25 Fax: +44 (1785) 25 72 36

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

### 1.4. Emergency telephone number

**United Kingdom** +44 (1785) 272650

+353 (1) 8624900 (Monday- Friday 9am-5pm)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Not classified

### 2.2. Label Elements

Not classified

#### Signal word

None

### **Hazard statements**

Not classified

### **EU Specific Hazard Statements**

EUH208 - Contains Dioctyltinbis(acetylacetonate) & Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction

### **Precautionary statements**

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

P102 - Keep out of reach of children

### 2.3. Other Hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

#### **EVO-STIK STRONG STUFF WATERPROOF ADHESIVE**

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### PBT and vPvB assessment

Supercedes Date: 07-Feb-2019

The components in this formulation do not meet the criteria for classification as PBT or 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
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	934-956-3	1	5 - <10	Asp. Tox. 1 (H304)		01-2119827000- 58-XXXX
Silane, ethenyltrimethoxy-	220-449-8	2768-02-7	1- <2.5	Acute Tox. 4 (H332) Flam. Liq. 3 (H226)		01-2119513215- 52-XXXX
Dioctyltinbis(acetylaceto nate)	483-270-6	54068-28-9	0.1 - <1	STOT SE 2 (H371) Skin Sens. 1 (H317)	Skin Sens. 1 :: C>=5%	01-000020199- 67-XXXX
Reaction mass of Bis(1,2,2,6,6-pentameth yl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	915-687-0	1065336-91- 5	0.01 - <0.1	Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		01-2119491304- 40-XXXX

### Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classifed, 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 Take a copy of the Safety Data Sheet when going for medical treatment.

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

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a doctor.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Ingestion Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never

Revision Date 07-Feb-2019

**EVO-STIK STRONG STUFF WATERPROOF ADHESIVE** 

Supercedes Date: 07-Feb-2019

Revision Date 07-Feb-2019 **Revision Number 1** 

give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to doctors

## 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.

5.2. Special hazards arising from the substance or mixture

chemical

Specific hazards arising from the Thermal decomposition can lead to release of toxic and corrosive gases/vapours.

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 Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Other information Ventilate the area. Prevent further leakage or spillage if safe to do so.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow to enter into **Environmental precautions** 

soil/subsoil. See Section 12 for additional Ecological Information.

## 6.3. Methods and material for containment and cleaning up

**Methods for containment** Use a non-combustible material like vermiculite, sand or earth to soak up the product

and place into a container for later disposal.

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

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

Ensure adequate ventilation. Use personal protective equipment as required. Avoid Advice on safe handling

contact with skin, eyes or clothing.

**EVO-STIK STRONG STUFF WATERPROOF ADHESIVE** 

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**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink

or smoke when using this product. Wash thoroughly after handling. Take off all

Revision Date 07-Feb-2019

**Revision Number** 1

contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep from freezing.

7.3. Specific end use(s)

Supercedes Date: 07-Feb-2019

Specific Use(s) Adhesives.

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 Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing

	Chemical Name	European Union	Ireland	United Kingdom
Π	Limestone	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
	1317-65-3		TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
			STEL: 30 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>
L			STEL: 12 mg/m <sup>3</sup>	STEL: 12 mg/m <sup>3</sup>
	Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
	67-56-1	TWA: 260 mg/m <sup>3</sup>	TWA: 260 mg/m <sup>3</sup>	TWA: 266 mg/m <sup>3</sup>
		*	STEL: 600 ppm	STEL: 250 ppm
			STEL: 780 mg/m <sup>3</sup>	STEL: 333 mg/m <sup>3</sup>
			Sk*	Sk*

Derived No Effect Level (DNEL) No information available

**Derived No Effect Level (DNEL)** 

Silane, ethenyltrimethoxy- (2768-02-7)

Type Worker Short term Systemic health effects

Exposure route Dermal

Derived No Effect Level (DNEL) 0.69 mg/kg bw/d

Type Worker Short term Systemic health effects

Exposure route Inhalation
Derived No Effect Level (DNEL) 4.9 mg/m³

Type Worker Long term Systemic health effects

Exposure route Dermal

Derived No Effect Level (DNEL) 0.69 mg/kg bw/d

Type Worker Long term Systemic health effects

Exposure route Inhalation
Derived No Effect Level (DNEL) 4.9 mg/m³

Dioctyltinbis(acetylacetonate) (54068-28-9)

Type Long term Systemic health effects Worker

Exposure route Dermal

Derived No Effect Level (DNEL) 0.07 mg/kg bw/d

### **EVO-STIK STRONG STUFF WATERPROOF ADHESIVE**

Revision Date 07-Feb-2019 Revision Number 1

Type Long term Systemic health effects Worker

Exposure route Inhalation
Derived No Effect Level (DNEL) 84 mg/m³

Supercedes Date: 07-Feb-2019

Type Short term Systemic health effects Worker

Exposure route Inhalation
Derived No Effect Level (DNEL) 84 mg/m³

Type Long term Short term Local health effects Worker

Exposure route Inhalation
Derived No Effect Level (DNEL) 0.091 mg/m³

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

Predicted No Effect Concentration (PNEC)	
Silane, ethenyltrimethoxy- (2768-02-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.34 mg/l
Marine water	0.034 mg/l
Microorganisms in sewage treatment	110 mg/l

Dioctyltinbis(acetylacetonate) (54068-28-9)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	26 μg/l			
Marine water	2.6 μg/l			
Freshwater - intermittent	260 μg/l			
Sewage treatment plant	1 mg/l			
Freshwater sediment	0.155 mg/kg dry weight			
Marine sediment	0.0155 mg/kg dry weight			
Soil	0.0158 mg/kg dry weight			

### 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear protective gloves. Gloves must conform to standard EN 374 **Skin and body protection** Wear appropriate personal protective clothing to prevent skin contact.

Environmental exposure controls No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical StateLiquidAppearancePasteColourWhite

Odour No information available Odour Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
Melting point / freezing point
Boiling point / boiling range
Flash Point > 34 °C
Flash Point > 100 °C
Evaporation Rate No data available
Flammability (solid, gas)
Flammability Limit in Air

**EVO-STIK STRONG STUFF WATERPROOF ADHESIVE** 

Upper flammability or explosive No data available

limite

Lower flammability or explosive No data available

limits

Vapour PressureNo data availableVapour DensityNo data available

Relative Density 1.61

Supercedes Date: 07-Feb-2019

**Water Solubility** Immiscible in water Solubility(ies) No data available **Partition coefficient** No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available No data available **Kinematic Viscosity Dynamic Viscosity** No data available **Explosive properties** No data available No data available **Oxidising properties** 

9.2. Other information

Solid content (%)
Softening Point
Molecular Weight
No information available
No information available

VOC (volatile organic compound) 34.4-36.2 g/L

Density

No information available

Bulk Density

No information available

## 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 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 Keep from freezing.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

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

Revision Date 07-Feb-2019

### **EVO-STIK STRONG STUFF WATERPROOF ADHESIVE**

Information on likely routes of exposure

Product information

Supercedes Date: 07-Feb-2019

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

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

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

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

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Numerical measures of toxicity

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 7,605.00 mg/kg ATEmix (inhalation-vapour) 748.90 mg/l

### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	LD50 > 5000 mg/kg (rat) OECD 401	LD50 > 3160 mg/kg (rabbit) OECD 402	LC50 Inhalation(4h) >5266 MG/M3 Rat
Silane, ethenyltrimethoxy- 2768-02-7	LD 50 = 7120 -7236 mg/kg ( Rat ) OECD 401	= 3360 μL/kg (Rabbit)	LC50 (4hr) 16.8 mg/l (rat) OECD TG 403
Dioctyltinbis(acetylacetonate) 54068-28-9	LD50 =2500 mg/kg (Rat)	LD50 >2000 mg/kg (Rat)	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-pi peridyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperi dyl sebacate 1065336-91-5	LD50 = 3230 mg/Kg (Rat)	LD50 >3170 mg/Kg (Rat)	

## 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.

Component Information	Component Information							
Silane, ethenyltrimethoxy	Silane, ethenyltrimethoxy- (2768-02-7)							
Method	Species	Exposure route	Effective dose	Exposure time	Results			
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant			

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Component Information								
Silane, ethenyltrimethoxy-	Silane, ethenyltrimethoxy- (2768-02-7)							
Method	Species	Exposure route	Effective dose	Exposure time	Results			
OECD Test No. 405:	Rabbit	eye		24 hours	Non-irritant			
Acute Eye								
Irritation/Corrosion								

Revision Date 07-Feb-2019

### **EVO-STIK STRONG STUFF WATERPROOF ADHESIVE**

Supercedes Date: 07-Feb-2019

Revision Date 07-Feb-2019 Revision Number 1

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Component Information							
Silane, ethenyltrimethoxy- (2768-02-7)							
Method	Species	Exposure route	Results				
OECD Test No. 406: Skin	Guinea pig	Dermal	Not a skin sensitiser				
Sensitisation							

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

Component Information					
Silane, ethenyltrimethoxy- (2768-02-7)					
Method	Species	Results			
OECD Test No. 471: Bacterial Reverse	in vitro	Not mutagenic			
Mutation Test					

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

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

Component Information							
Silane, ethenyltrimethoxy- (2768-02-7)	Silane, ethenyltrimethoxy- (2768-02-7)						
Method	Species	Results					
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Not Classifiable					

**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.

Component Information	Component Information							
Silane, ethenyltrimethoxy-	Silane, ethenyltrimethoxy- (2768-02-7)							
Method	Species	Exposure route	Effective dose	Exposure time	Results			
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL			
Sub-chronic Inhalation				-				
Toxicity: 90-day Study								

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

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecotoxicity

Chemical Name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor
	plants		Micro-organisms		
Hydrocarbons, C15-C20,	EL50 (72h)	LL50 (96h) > 1028	-	LL50 (48h)> 3193	-
n-alkanes, isoalkanes,	>10,000 mg/L	mg/L		mg/l (Acartia tonsa)	
cyclics, < 0.03%	(Skeletonema	(Scophthalmus			
aromatics	costatum)	maximus)			
	ISO 10253	OECD 203			

### **EVO-STIK STRONG STUFF WATERPROOF ADHESIVE**

Supercedes Date: 07-Feb-2019

Revision Date 07-Feb-2019 Revision Number 1

Silane, ethenyltrimethoxy- 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	-	EC50(48hr) 168.7mg/l (Daphnia magna)	-
Dioctyltinbis(acetylaceto nate) 54068-28-9	-	LC50 (96h) =86 mg/L Fish (Static)	-	EC50 (48h) =58.6 mg/L Waterflea (Daphnia magna)	-
Reaction mass of Bis(1,2,2,6,6-pentameth yl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate 1065336-91-5		LC50 (96h) =0.9 mg/L	-	-	-

### 12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information Silane, ethenyltrimethoxy- (2768-02-7)				
Method	Exposure time	Value	Results	
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily	
Biodegradability: Manometric			biodegradable	
Respirometry Test (TG 301 F)				

### 12.3. Bioaccumulative potential

Bioaccumulative potential There is no data for this product.

### **Component Information**

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)	
Silane, ethenyltrimethoxy-	1.1	-	
2768-02-7			

### 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment**The components in this formulation do not meet the criteria for classification as PBT or vPvB. .

Chemical Name	PBT and vPvB assessment
Silane, ethenyltrimethoxy-	The substance is not PBT / vPvB
2768-02-7	
Dioctyltinbis(acetylacetonate)	The substance is not PBT / vPvB
54068-28-9	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	The substance is not PBT / vPvB
and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
1065336-91-5	

## 12.6. Other adverse effects

Other Adverse Effects No information available.

**EVO-STIK STRONG STUFF WATERPROOF ADHESIVE** 

Supercedes Date: 07-Feb-2019 **Revision Number 1** 

## **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

Revision Date 07-Feb-2019

international regulations as applicable.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the

product itself.

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 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 None

14.6 Special Provisions 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

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

14.1 UN Number Not regulated 14.2 Proper Shipping Name Not regulated Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing Group 14.5 Environmental hazards Not applicable None

14.6 Special Provisions

### 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)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

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).

### **EVO-STIK STRONG STUFF WATERPROOF ADHESIVE**

Supercedes Date: 07-Feb-2019

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

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

#### 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

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H332 - Harmful if inhaled

H226 - Flammable liquid and vapour H371 - May cause damage to organs

H304 - May be fatal if swallowed and enters airways

### Legend

SVHC: Substances of Very High Concern for Authorisation:

**Legend** SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) **STEL** STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation

PBT Persistent, Bioaccumulative, and Toxic (PBT) 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

Classification and labeling data calculated from data received from raw material suppliers

**Prepared By** Product Safety & Regulatory Affairs

**Revision Date** 07-Feb-2019

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

Revision Date 07-Feb-2019

**EVO-STIK STRONG STUFF WATERPROOF ADHESIVE** 

Supercedes Date: 07-Feb-2019 Revision Number 1

#### 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** 

Revision Date 07-Feb-2019