



# **Safety Data Sheet**

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

**EVO-STIK EVOBOND** 

Supercedes Date: 14-Aug-2017

Revision Date 31-Oct-2018 Revision Number 1.02

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

#### 1.1. Product Identifier

Product Name EVO-STIK EVOBOND

Pure substance/mixture Mixture

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

**Recommended use** Primers, Sealers, and Undercoaters.

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

**Ireland** +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 Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone. 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

P280 - Wear protective gloves and eye/face protection

#### 2.3. Other Hazards



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No information available

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#### PBT and vPvB assessment

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	Specific concentration limit (SCL)	REACH Registration Number
2,2,4-Trimethyl-1,3-pent anediol diisobutyrate	229-934-9	6846-50-0	0.1 - <1	Repr. 2 (H361d) Aquatic Chronic 3 (H412)		01-2119451093- 47-XXXX
Vinyl acetate	203-545-4	108-05-4	0.1 - <1	STOT SE 3 (H335) Carc. 2 (H351) Acute Tox. 4 (H332) Flam Liq. 2 (H225) Aquatic Chronic 3 (H412)		01-2119471301- 50-XXXX
Methyl alcohol	200-659-6	67-56-1	0.1 - <1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	01-2119392409- 28-XXXX
2-Bromo-2-nitro-1,3-prop anediol		52-51-7	0.01 - <0.1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M Factor Acute =10		01-2119980938- 15-XXXX
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazo	611-341-5	55965-84-9	<0.0015	Acute Tox. 3 (H301) Acute Tox. 3 (H311)	Eye Irrit. 2 :: 0.06%<=C<0.6% Skin Corr. 1B :: C>=0.6%	No data available



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lone	Acute Tox.	2 Skin Irrit. 2 ::
	(H330)	0.06%<=C<0.6%
	Skin Corr. 1	IB Skin Sens. 1 ::
	(H314)	C>=0.0015%
	Skin Sens.	1
	(H317)	
	Aquatic Acut	e 1
	(H400)	
	Aquatic Chro	onic
	1 (H410)	
	M Factor Acu	ite =
	100	
	M Factor Chr	onic
	= 10	

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

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** Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes. Get medical attention if irritation develops

and persists.

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

doctor.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Get medical attention if symptoms occur.

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

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** Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

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

chemical



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Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

5.3. Advice for firefighters

**EVO-STIK EVOBOND** 

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 eyes.

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

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

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

**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 Ensure adequate ventilation. Avoid contact with eyes. Use personal protection

recommended in Section 8.

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

contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from food,

drink and animal feedingstuffs.

## 7.3. Specific end use(s)

### Specific Use(s)

Primers, Sealers, and Undercoaters.

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

Other Information Observe technical data sheet.



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# SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

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**Exposure Limits** 

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)

Type Worker Systemic health effects Long term

Exposure route Dermal

Derived No Effect Level (DNEL) 3.12 mg/kg bw/d

Type Worker Systemic health effects Long term

Exposure route Inhalation
Derived No Effect Level (DNEL) 110 mg/m³

Derived No Effect Level (DNEL)				
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)				
Type	Consumer Systemic health effects Long term			
Exposure route	Dermal			
Derived No Effect Level (DNEL)	18.8 mg/kg bw/d			

Туре	Consumer Systemic health effects Long term
Exposure route	Inhalation
Derived No Effect Level (DNEL)	32.6 mg/m³

Туре	Consumer Systemic health effects Long term
Exposure route	Oral
Derived No Effect Level (DNEL)	18.8 mg/kg bw/d

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

Predicted No Effect Concentration (PNEC)				
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.014 mg/l			
Marine water	0.0014 mg/l			
Freshwater sediment	1.15 mg/kg dry weight			
Marine sediment	0.115 mg/kg dry weight			
Soil	0.926 mg/kg dry weight			
Microorganisms in sewage treatment	3 mg/l			

## 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). Avoid contact with eyes.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection During spraying wear suitable respiratory equipment.

Environmental Exposure Controls Do not allow into any sewer, on the ground or into any body of water.



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# SECTION 9: Physical and chemical properties

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

Physical State Liquid
Appearance viscous
Colour White

Odour Slight, Petroleum
Odour Threshold No information available

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

pH 4 - 6
Melting point / freezing point 0 °C
Boiling point / boiling range 100 °C

Flash Point No data available Not applicable

Evaporation Rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour PressureNo data availableVapour DensityNo data available

Relative Density 1.05 - None known

**Water Solubility** Dispersible 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 **Oxidising properties** No data available

9.2. Other information

Solid content (%) 28

Softening Point
Molecular Weight
VOC (volatile organic compound)
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.



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10.4. Conditions to avoid

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Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

**Hazardous decomposition** 

products

Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

# **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** 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 (oral) 88,939.00 mg/kg
ATEmix (inhalation-dust/mist) 445.58 mg/l
ATEmix (inhalation-vapour) 2,668.00 mg/l

**Component Information** 

oomponent information			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,2,4-Trimethyl-1,3-pentanedio	> 3200 mg/kg (Rat)	>2000 mg/Kg (Rabbit)	> 5.3 mg/L (Rat) 6 h
l diisobutyrate			
6846-50-0			
Vinyl acetate	= 2900 mg/kg (Rat)	= 2335 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h = 3680
108-05-4			ppm (Rat)4h
Methyl alcohol	= 2500 mg/kg (Rat)	200-1000 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h =
67-56-1			64000 ppm (Rat) 4 h
2-Bromo-2-nitro-1,3-propanedi	= 180 mg/kg (Rat)	= 1600 mg/kg (Rat)	$= 800 \text{ mg/m}^3 \text{ (Rat) 4 h} > 5$
ol			g/m³ (Rat)6h
52-51-7			
Mixture, 3(2H)-isothiazolone,	= 53 mg/kg (Rat)		
5-chloro-2-methyl- with			
2-methyl-3(2H)-isothiazolone			
55965-84-9			



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

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

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	European Union
Vinyl acetate	Carc. 2
108-05-4	

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.

## **SECTION 12: Ecological information**

# 12.1. Toxicity

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
2,2,4-Trimethyl-1,3-pent anediol diisobutyrate	-	LC50: >1.55mg/L (96h, Pimephales	-	EC50: >1.46mg/L (48h, Daphnia	-
6846-50-0		promelas)	E050 0000 #	magna)	
Vinyl acetate	-	LC50 96 h = 14	EC50 = 2080 mg/L	EC50 48 h = 12.6	-
108-05-4		mg/L (Pimephales promelas static)	5 min	mg/L (Daphnia magna )	
Methyl alcohol	-	LC50: 19500 -	EC50 = 39000	-	-
67-56-1		20700mg/L (96h,	mg/L 25 min		
		Oncorhynchus	EC50 = 40000		
		mykiss) LC50: 18 -	mg/L 15 min		
		20mL/L (96h,	EC50 = 43000		
		Oncorhynchus	mg/L 5 min		
		mykiss) LC50:			
		>100mg/L (96h,			
		Pimephales			
		promelas) LC50:			
		=28200mg/L (96h,			
		Pimephales			
		promelas) LC50:			
		13500 - 17600mg/L			
		(96h, Lepomis			
		macrochirus)			
2-Bromo-2-nitro-1,3-prop	EC50 (72h) =0.37	=35.7 mg/L	EC50 = 0.41  mg/L	EC50 (48h) =1.4	-
anediol	mg/L	(Lepomis	30 min	mg/L (Daphnia	



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52-51-7 macrochirus) Flow EC50 = 0.50 mg/L(Pseudokirchneriell magna, static) a subcapitata) through (EPA OPP 15 min (OECD 202) (OECD 201) EC50 = 0.91 mg/L72-1) 5 min EC50 (72h) =0.048 EC50 (96h) = 0.22EC50 (48h) =0.1 Mixture, 3(2H)-isothiazolone, mg/L (Daphnia mg/L mg/L 5-chloro-2-methyl- with (Pseudokirchneriell (Oncorhynchus magna) (OECD 2-methyl-3(2H)-isothiazo a subcapitata) mykiss) (OECD 202) (OECD 201) lone 211) 55965-84-9

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

#### **Component Information**

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Vinyl acetate	0.73	-
108-05-4		
Methyl alcohol 67-56-1	-0.77	10
2-Bromo-2-nitro-1,3-propanediol 52-51-7	0.22	3.15
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone 55965-84-9	-	3.6

#### 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	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	The substance is not PBT / vPvB	
Vinyl acetate	The substance is not PBT / vPvB	
108-05-4	PBT assessment does not apply	
Methyl alcohol	The substance is not PBT / vPvB	
67-56-1	PBT assessment does not apply	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	The substance is not PBT / vPvB	
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone 55965-84-9	The substance is not PBT / vPvB	

#### 12.6. Other adverse effects

Other Adverse Effects No information available.

**Endocrine Disruptor Information** .



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Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Vinyl acetate	Group III Chemical	-

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

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products

Dispose of contents/ container to an approved landfill.

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 NumberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Provisions None

**IMDG** 

14.1 UN NumberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated

14.5 Marine PollutantNp14.6 Special ProvisionsNone

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 NumberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated14.5 Environmental hazardsNot applicable14.6 Special ProvisionsNone

# 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.



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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)

#### 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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	CAS No.	Restricted substance per REACH Annex XVII
Methyl alcohol	67-56-1	69.

### 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)

### Biocidal Products Regulation (EU) No 528/2012 (BPR)

Contains a biocide: Contains C(M)IT/MIT (3:1). May produce an allergic reaction

#### Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Methyl alcohol - 67-56-1	500	5000

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### **Persistent Organic Pollutants**

Not applicable

### **National Regulations**

#### 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

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H332 - Harmful if inhaled

H225 - Highly flammable liquid and vapour

H412 - Harmful to aquatic life with long lasting effects

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H301 - Toxic if swallowed



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H311 - Toxic in contact with skin

H330 - Fatal if inhaled

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H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H331 - Toxic if inhaled

H370 - Causes damage to organs

H361d - Suspected of damaging the unborn child

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 31-Oct-2018

**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**