

EVO-STIK EPOXY CONTROL - RESIN
Supersedes Date: 14-Nov-2018

Revision Date 14-Nov-2018
Revision Number 1

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

1.1. Product Identifier

Product Name EVO-STIK EPOXY CONTROL - RESIN
Pure substance/mixture Mixture

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

Recommended use Resin.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik SA
Immeuble "Le Jade"
253 Avenue du President Wilson
93211 La Plaine Saint Denis
France
Tel: +33 (0)1 55 99 90 00
Fax: +33 (0)1 55 99 90 01

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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label Elements

Contains: Bisphenol A diglycidyl ether, Bisphenol A diglycidyl ether - bisphenol A copolymer, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, 2,2'-[HEXANE-1,6-DIYLBI(S(OXYMETHYLENE))]DIOXIRANE



Signal word
Warning

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Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P391 - Collect spillage
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

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

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 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Bisphenol A diglycidyl ether	216-823-5	1675-54-3	40 - <80	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer	-	25036-25-3	10 - <20	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)		No data available
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	500-006-8	9003-36-5	10 - <20	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)		01-2119454392-40-XXXX
2,2'-[HEXANE-1,6-DIYL BIS(OXYMETHYLENE)]	618-939-5	933999-84-9	5 - <10	Skin Irrit. 2 (H315)		01-2119463471-41-XXXX

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DIOXIRANE				Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)		
Benzyl alcohol	202-859-9	100-51-6	1 - <5	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)		01-2119492630-38-XXXX
Glycidoxypropyltrimethoxysilane	219-784-2	2530-83-8	1 - <3	Eye Dam. 1 (H318)		01-2119513212-58-XXXX

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 $\geq 0.1\%$ (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.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
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 Itching. Rashes. Hives. Burning sensation.

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

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the

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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 chemical Product is or contains a sensitiser. May cause sensitisation by skin contact.

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. 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 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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protection recommended in Section 8.

General hygiene considerations Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including 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.

7.3. Specific end use(s)

Specific Use(s)
Resin.

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

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
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³ Sk*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Please refer also to Safety Data Sheet of Part B.

Personal Protective Equipment

Eye/face protection Wear safety glasses with side shields (or goggles).
Hand protection Wear protective gloves. Nitrile rubber. Butyl rubber. 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 Ensure adequate ventilation, especially in confined areas.

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 State Liquid
Appearance No information available
Colour Off-white
Odour Slight
Odour Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	> 200 °C	
Flash Point	150 °C	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	

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Lower flammability or explosive limits	No data available	
Vapour Pressure	No data available	
Vapour Density	No data available	
Relative Density	No data available	
Water Solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic Viscosity	No data available	
Dynamic Viscosity	10 - 20 Pa.s	@ 25 °C
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
Softening Point	No information available
Molecular Weight	No information available
VOC (volatile organic compound)	No information available
Density	1.16 g/cm ³
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 impact None.

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 None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products 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

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Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes. Causes serious eye irritation.
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). Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute Toxicity

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

ATEmix (oral)	33,061.00 mg/kg
ATEmix (dermal)	36,232.00 mg/kg
ATEmix (inhalation-dust/mist)	85.70 mg/l

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A diglycidyl ether 1675-54-3	= 11300 µL/kg (Rat)	LD50 >2000 mg/Kg (Rat)	
Bisphenol A diglycidyl ether - bisphenol A copolymer 25036-25-3	=11600 mg/Kg (Rat)	>22800 mg/Kg (Rabbit)	
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	> 2 g/kg (Rat)	LD50 > 2000 mg/kg (Rat) (OECD 402)	
2,2'-[HEXANE-1,6-DIYL BIS(O XYMETHYLENE)]DIOXIRANE 933999-84-9	LD50 = 2190 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat) OECD 402	
Benzyl alcohol 100-51-6	LD50 = 1620 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4.17 mg/L (Rat) 4 h
Glycidoxypropyltrimethoxysilan e 2530-83-8	= 8025 mg/kg (rat)	= 4250 mg/kg (Rabbit)	> 5.3 mg/L (Rat) 4 h

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. Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
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.

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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 Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
2,2'-[HEXANE-1,6-DIYL BIS(OXYMETHYLENE)] DIOXIRANE 933999-84-9	-	LC50 (96h) = 30 mg/L (Oncorhynchus mykiss) OECD 203	-	EC50 (48h) = 39 - 57 mg/L (Daphnia magna) OECD 202	-
Benzyl alcohol 100-51-6	EC 50 (72h) = 700 mg/L (Pseudokirchnerella subcapitata) OECD 201	LC50 96 h = 460 mg/L (Pimephales promelas static)	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	EC50 48 h = 230 mg/L (water flea)	-
Glycidoxypropyltrimethoxysilane 2530-83-8	-	LC50 (96h) = 55 mg/L (Cyprinus carpio) OECD 203	-	EC50 (48h) = 473 mg/L Daphnia magna	-

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)
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	3.6	-
2,2'-[HEXANE-1,6-DIYLBIS(OXYMETHYLENE)]DIOXIRANE 933999-84-9	0.822	3.57
Benzyl alcohol 100-51-6	1.1	-

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

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vPvB.

Chemical Name	PBT and vPvB assessment
Bisphenol A diglycidyl ether 1675-54-3	The substance is not PBT / vPvB
Formaldehyde, polymer with (chloromethyl)oxirane and phenol 9003-36-5	The substance is not PBT / vPvB
2,2'-(HEXANE-1,6-DIYLBIS(OXYMETHYLENE))DIOXIRANE 933999-84-9	The substance is not PBT / vPvB
Benzyl alcohol 100-51-6	The substance is not PBT / vPvB
Glycidoxypropyltrimethoxysilane 2530-83-8	The substance is not PBT / vPvB

12.6. Other adverse effects

Other Adverse Effects No information available.

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Bisphenol A diglycidyl ether	Group II Chemical	-
Bisphenol A diglycidyl ether - bisphenol A copolymer	Group III Chemical	-

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused 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.
Waste codes / waste designations according to EWC / AVV	Waste codes should be assigned by the user based on the application for which the product was used.
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)

14.1 UN Number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing Group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	274, 335, 601, 375
Classification Code	M6
Limited Quantity (LQ)	5 L
ADR Hazard Id (Kemmler)	90

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IMDG

14.1 UN Number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), Marine Pollutant
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III, Marine Pollutant
14.5 Marine Pollutant	P
14.6 Special Provisions	274, 335, 969
Limited Quantity (LQ)	5 L
EmS-No.	F-A, S-F
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	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol)
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Bisphenol A diglycidyl ether, Formaldehyde, polymer with (chloromethyl)oxirane and phenol), 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	A97, A158, A197
Limited Quantity (LQ)	30 kg G
ERG Code	9L

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)

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 $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical Name	CAS No.
Bisphenol A diglycidyl ether	1675-54-3
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5
2,2'-(HEXANE-1,6-DIYLBIS(OXYMETHYLENE))DIOXIRANE	933999-84-9
Benzyl alcohol	100-51-6
Glycidoxypropyltrimethoxysilane	2530-83-8

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	CAS No.	Restricted substance per REACH Annex XVII
Bisphenol A diglycidyl ether	1675-54-3	
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	
2,2'-(HEXANE-1,6-DIYLBIS(OXYMETHYLENE))DIOXIRANE	933999-84-9	
Benzyl alcohol	100-51-6	
Glycidoxypropyltrimethoxysilane	2530-83-8	

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)

Chemical Name	CAS No.
Bisphenol A diglycidyl ether	1675-54-3
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5
2,2'-(HEXANE-1,6-DIYLBIS(OXYMETHYLENE))DIOXIRANE	933999-84-9
Benzyl alcohol	100-51-6
Glycidoxypropyltrimethoxysilane	2530-83-8

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

H302 - Harmful if swallowed
H332 - Harmful if inhaled
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects
H318 - Causes serious eye damage
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

Ceiling Maximum limit value

STEL

*

STEL (Short Term Exposure Limit)

Skin designation

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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 14-Nov-2018

Indication of changes

Revision note Not applicable.

Training Advice When working with hazardous materials, regular training of operators is required by law

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