

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) This SDS is for generic information purposes and does not reflect required country specific information for OEL

PU FOAM AS 2C B2HH

Supercedes Date: No information available

Revision Date 16-Sep-2016 Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name Pure substance/mixture PU FOAM AS 2C B2HH Mixture

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

Recommended use Uses advised against

Building and construction work. None known.

1.3. Details of the supplier of the safety data sheet

Company Name Bostik BV De Voerman 8 PO Box 303 5215 MH's-Hertogenbosch, The Netherlands Tel: +31 736 244 244 Fax: +31 736 244 344

E-mail address

SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone No information available

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin Corrosion/Irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Aerosols	Category 1 - (H222)

Unknown acute toxicity Unknown aquatic toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity Contains 0 % of components with unknown hazards to the aquatic environment

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains Isocyanic acid, polymethylenepolyphenylene ester

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Signal Word DANGER

Hazard statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H351 Suspected of causing cancer
- H373 May cause damage to organs through prolonged or repeated exposure
- H222 Extremely flammable aerosol
- H229 Pressurised container: May burst if heated
- EUH204 Contains isocyanates. May produce an allergic reaction

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

- P101 If medical advice is needed, have product container or label at hand
- P102 Keep out of reach of children
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P271 Use only outdoors or in a well-ventilated area
- P210 Keep away from open flames/hot surfaces. No smoking
- P211 Do not spray on an open flame or other ignition source
- P251 Do not pierce or burn, even after use
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P331 Do NOT induce vomiting
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P302 + P352 IF ON SKIN: Wash with plenty of water and soap
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant

Special provisions concerning the labelling of certain mixtures

This product requires tactile warnings if supplied to the general public

2.3. Other Hazards

General Hazards

No information available.

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

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

PU FOAM AS 2C B2HH

Supercedes Date: No information available

Chemical Name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Isocyanic acid, polymethylenepolyphenylen e ester	-	9016-87-9	40 - <80	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	Exempt
2-Propanol, 1-chloro-, phosphate (3:1)	237-158-7	13674-84-5	10 - <20	Acute Tox. 4 (H302)	01-2119480419-30-XXXX
Ethylene glycol	203-473-3	107-21-1	5 - <10	STOT RE 2 (H373) Acute Tox. 4 (H302)	01-2119456816-28-XXXX
Dimethyl ether	204-065-8	115-10-6	5 - <10	Flam. Gas 1 (H220) Press. Gas	01-2119472128-37-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	Immediate medical attention is required. In case of accident or being unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).	
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a doctor. Artificial respiration and/or oxygen may be necessary.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. If skin irritation persists, call a doctor. Wash contaminated clothing before reuse.	
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a doctor.	
Ingestion	Call a doctor immediately. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.	
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required.	
4.2. Most important symptoms and	l effects, both acute and delayed	
Symptoms	May cause skin and eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Headache.	
4.3. Indication of any immediate m	edical attention and special treatment needed	
Note to doctors	May cause sensitisation of susceptible persons. Treat symptomatically. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.	

Section 5: FIRE-FIGHTING MEASURES

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Supercedes Date: No information available

5.1. Extinguishing media

Suitable Extinguishing Media

Use: Carbon dioxide (CO2), Water spray (fog), Foam.

Unsuitable Extinguishing Media Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire and/or explosion do not breathe fumes. May cause sensitisation by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapours. May form explosive mixtures with air.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride. Hydrogen cyanide.

5.3. Advice for firefighters

Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Remove all possible sources of ignition in the surrounding area. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Dam up. Use personal protective equipment as required. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.	
6.4. Reference to other sections		

Reference to other sections	Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
	Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Ensure that enough fresh air is supplied to dilute and remove dusts, fumes or vapours. Between 5 and 15 air changes per hour are recommended, with a through draught. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not stick pin or any other sharp object into opening on top of can.

General Hygiene Considerations

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Supercedes Date: No information available

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 10 - 35 °C. Observe local regulations / instructions for storage of pressurized containers.

7.3. Specific end use(s)

Other Information

Recommendation(s); Observe technical data sheet

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical Name	European Union	
Ethylene glycol	TWA: 20 ppm	
107-21-1	TWA: 52 mg/m ³	
	STEL: 40 ppm	
	STEL: 104 mg/m ³	
	S*	
Dimethyl ether	TWA: 1000 ppm	
115-10-6	TWA: 1920 mg/m ³	

Derived No Effect Level (DNEL) No information available

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

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

reisonal Frotective Equipmen	
Eye/Face Protection	Tight sealing safety goggles. Face protection shield.
Hand Protection	Recommended Use:. Nitrile 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. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.
Skin and Body Protection	Antistatic footwear. Wear fire/flame resistant/retardant clothing. Suitable protective clothing. Apron.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. In case of inadequate ventilation wear respiratory protection.
Recommended Filter type:	This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. Type A1 according to standard EN 14387) is used.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Aerosol
Appearance	Foam
Colour	light Red

PU FOAM AS 2C B2HH Supercedes Date: No information available

Odour	Characteristic	
Odour Threshold	No information available	
Property	Values	Remarks • Method
рН	No information available	
Melting point/freezing point	No information available	
Boiling Point	No information available	
Flash Point	< 100 °C / < 212 °F	
Evaporation Rate	No information available	
Flammability (solid, gas) Flammability Limit in Air	No information available	
Upper Flammability Limit	53%	
Lower Flammability Limit	1.7%	
Vapour Pressure	500	kPa
Vapour Density	No information available	
Specific Gravity	No information available	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Autoignition Temperature	235 °C / 455 °F	
Decomposition Temperature	No information available	
Explosive Properties	May form explosive mixtures with air	
Explosive Limits	No information available	
Upper	No information available	
Lower	No information available	
Oxidising Properties	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
9.2. Other information		
Softening Point	No information available	
Molecular Weight	No information available	
Solvent content (%)	No information available	
Solid content (%)	No information available	
Density	1.03 g/cm ³	
Bulk Density	No Data Available	
VOC content (%)	15.82 %	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical 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

Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Strong oxidising agents. Acid anhydrides. Strong acids.

10.6. Hazardous decomposition products

Formaldehyde. Carbon monoxide. Carbon dioxide (CO2).

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information

Harmful by inhalation.

Inhalation Eye contact Skin Contact Ingestion Sensitisation	No Data Available. No Data Available. No Data Available. No Data Available. No Data Available.	
Skin Corrosion/Irritation	Irritating to skin.	
Serious eye damage/eye irritation	Not applicable.	
Sensitisation	May cause sensitisation by inhalation. May cause sensitisation by skin contact. May cause sensitisation of susceptible persons.	
Germ Cell Mutagenicity	Not applicable.	
Carcinogenicity	Contains a known or suspected carcinogen.	
Reproductive Toxicity	No information available.	
STOT - Single Exposure	No information available.	
STOT - Repeated Exposure	No information available.	
Target Organ Effects	Heart, Central nervous system, Eyes, Respiratory system, Skin.	
Aspiration Hazard	No information available.	
Numerical measures of toxicity		
Acute Toxicity		
The following values are calculate ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist)	d based on chapter 3.1 of the GHS document 3,192.00 mg/kg 5,848.00 mg/kg 1.50 mg/l	
Unknown acute toxicity100 % of the mixture consists of ingredient(s) of unknown toxicity.0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.88.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).49.98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).		
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Component Information

Toxicity Data

No information available

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Supercedes Date: No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid,	= 49 g/kg (Rat)	> 9400 mg/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h
polymethylenepolyphenylene ester			
2-Propanol, 1-chloro-, phosphate	= 1500 mg/kg (Rat)	= 1230 mg/kg (Rabbit)	= 5 mg/L (Rat)4 h
(3:1)			- · ·
Ethylene glycol	= 4700 mg/kg (Rat)	= 9530 µL/kg (Rabbit) = 10600	-
	· · /	mg/kg (Rat)	

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

No information available

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isocyanic acid,		CL50 (96h) >1000 mg/L Fish	-
polymethylenepolyphenylene ester		(Danio rerio)	
2-Propanol, 1-chloro-, phosphate	EC50 72 h = 45 mg/L	LC50 96 h = 180 mg/L (Leuciscus	EC50 48 h = 63 mg/L (Daphnia
(3:1)	(Desmodesmus subspicatus)	idus static) LC50 96 h = 98 mg/L	magna)
	EC50 96 h = 4 mg/L	(Pimephales promelas static) LC50	
	(Pseudokirchneriella subcapitata)	96 h = 56.2 mg/L (Brachydanio	
		rerio static) LC50 96 h = 30 mg/L	
		(Poecilia reticulata static)	
Ethylene glycol	EC50 96 h 6500 - 13000 mg/L	LC50 96 h = 40761 mg/L	EC50 48 h = 46300 mg/L (Daphnia
	(Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss static)	magna)
		LC50 96 h = 27540 mg/L (Lepomis	
		macrochirus static) LC50 96 h =	
		41000 mg/L (Oncorhynchus	
		mykiss) LC50 96 h 40000 - 60000	
		mg/L (Pimephales promelas static)	
		LC50 96 h 14 - 18 mL/L	
		(Oncorhynchus mykiss static)	
		LC50 96 h = 16000 mg/L (Poecilia	
		reticulata static)	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other Adverse Effects

No information available

Endocrine Disruptor Information

Supercedes Date: No information available

This product does not contain any known or suspected endocrine disruptors.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Improper disposal or reuse of this container may be dangerous and illegal.
European Waste Catalogue	08 05 01* waste isocyanates 16 05 04* gases in pressure containers (including halons) containing dangerous substances
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

ADR

ADR 14.1 UN/ID no 14.2 Proper Shipping Name 14.3 Hazard Class Hazard Labels 14.4 Packing Group Description 14.5 Environmental Hazard 14.6 Special Provisions Classification Code Tunnel restriction code Limited Quantity (LQ)	UN1950 Aerosols 2.1 2.1 Not regulated UN1950, Aerosols, 2.1 Not applicable 190, 327, 344, 625 5F (D) 1 L
IMDG 14.1 UN/ID no 14.2 Proper Shipping Name 14.3 Hazard Class 14.4 Packing Group Description 14.5 Marine Pollutant 14.6 Special Provisions Limited Quantity (LQ) EmS-No 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN1950 Aerosols 2.1 Not regulated UN1950, Aerosols, 2.1 Not applicable 63,190, 277, 327, 344, 959 See SP277 F-D, S-U No information available
<u>RID</u> 14.1 UN/ID no 14.2 Proper Shipping Name 14.3 Hazard Class 14.4 Packing Group Description 14.5 Environmental Hazard Classification Code 14.6 Special Provisions Limited Quantity (LQ)	UN1950 Aerosols 2.1 Not regulated UN1950, Aerosols, 2.1 Not applicable 5F None 1 L
<u>ICAO (air)</u> 14.1 UN/ID no 14.2 Proper Shipping Name	UN1950 Aerosols

PU FOAM AS 2C B2HH Supercedes Date: No information available

 14.3 Hazard Class 14.4 Packing Group Description 14.5 Environmental Hazard 14.6 Special Provisions 	2.1 Not regulated UN1950, Aerosols, 2.1 Not applicable A145, A167
<u>IATA</u> 14.1 UN/ID no	UN1950
14.2 Proper Shipping Name	Aerosols, flammable
14.3 Hazard Class	2.1
14.4 Packing Group	Not regulated
Description	UN1950, Aerosols, flammable, 2.1
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	A145, A167, A802
Limited Quantity (LQ)	30 kg G
ERG Code	10L

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 >=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).

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)

Dangerous substance category per Seveso Directive (2012/18/EU) P3a - FLAMMABLE AEROSOLS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Persistent Organic Pollutants Not applicable

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Supercedes Date: No information available

National Regulations

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number
Isocyanic acid, polymethylenepolyphenylene ester	RG 62
9016-87-9	
Ethylene glycol	RG 84
107-21-1	

<u>Germany</u>

Ordinance on Industrial Safety and Health - Germany - BetrSichV Flammable liquid (R10), EEC: refer to Annex III No. 1 (fire and explosion hazards) and § 7 paragraph 3

Water hazard class (WGK) WGK 1

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

15.2. Chemical safety assessment

No information available

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

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

- H302 Harmful if swallowed
- H335 May cause respiratory irritation
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 May cause an allergic skin reaction
- H351 Suspected of causing cancer if inhaled
- H332 Harmful if inhaled

Legend

SVHC: Substances of Very High Concern for Authorisation:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	*
PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		als
STOT (RE): Specific target organ toxicity - Repeated exposure		
STOT (SE): Specific target organ toxicity - Single exposure		
EWC: Europear	n Waste Catalogue	

STEL (Short Term Exposure Limit) Skin designation

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

16-Sep-2016

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Indication of changes	
Revision Note	Not applicable.
Training Advice	No information available
Additional information	No information available

This 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 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