

This safety data sheet complies with the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

#### XPU 18512 B Supercedes Date: 10-Mar-2023

#### Revision date 21-Jun-2023 Revision Number 3

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

1.1.	Product	identifier	

Product Name	XPU 18512 B
Pure substance/mixture	Mixture

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

Recommended use	Hardener

Uses advised against	None known
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### 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

Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri) NHS: 111

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

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)	
Category 3 Respiratory irritation		
Specific target organ toxicity — repeated exposure	Category 2 - (H373)	

#### 2.2. Label elements

Contains Methylenediphenyl diisocyanate

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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.

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P501 - Dispose of contents/ container to an approved waste disposal plant

Special provisions concerning the labelling of certain mixtures

As from 24 August 2023 adequate training is required before industrial or professional use.

#### Additional information

This product requires tactile warnings if supplied to the general public. This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

#### 2.3. Other hazards

Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	. ,	REACH registration number
Methylenediphenyl diisocyanate	(615-005-00- 9) (615-034-00- 7)		20 - 25	Acute Tox. 4 (H332) Skin Irrit. 2 (H315)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5%	01-2119457015- 45-xxxx

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247-714-0	Eye Irrit. 2 (H319) STOT SE 3 :: C>=5%
	Resp. Sens. 1
	(H334)
	Skin Sens. 1
	(H317)
	Carc. 2 (H351)
	STOT SE 3
	(H335)
	STOT RE 2
	(H373)

#### 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)

#### Notes

See section 16 for more information

Chemical name	Notes
Methylenediphenyl diisocyanate - 26447-40-5	C,2

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. 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	May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.
4.2. Most important symptoms and	effects, both acute and delayed

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

	Burning sensation. Difficulty in breathing.		
4.3. Indication of any immediate me	edical attention and special treatment needed		
<b>Note to doctors</b> May cause sensitisation in susceptible persons. Treat symptomatically.			
SECTION 5: Firefighting mea	asures		
5.1. Extinguishing media			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	No information available.		
5.2. Special hazards arising from the	ne substance or mixture		
Specific hazards arising from the chemical	Product is or contains a sensitiser. May cause sensitisation by inhalation. May cause sensitisation by skin contact.		
Hazardous combustion products	Carbon oxides. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanates. Silicon dioxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.		
5.3. Advice for firefighters			
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
SECTION 6: Accidental relea	ase measures		
6.1. Personal precautions, protecti	ve equipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.		
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 conta	ainment and cleaning up		
Methods for containment	Do NOT close container (evolution of carbon dioxide - CO2). Keep wet and put outdoors in a secured place for a few days. Then dispose to of according to local / national regulations (see Section 13). Dyke far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.		
Methods for cleaning up	2%, Liquid dishwashing soap, a mixture of 90% water and 8-10% sodium carbonate. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Decontaminate floor with decontamination solution letting stand for at least 15 minutes.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
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 st	SECTION 7: Handling and storage				
7.1. Precautions for safe handling	-				
Advice on safe handling	Please also refer to the SDS for the other component(s) of the kit. This product is part of a kit. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.				
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.				
7.2. Conditions for safe storage, inc	cluding 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. Protect from moisture.				
Recommended storage temperature	Keep at temperatures between 10 and 35 °C.				
7.3. Specific end use(s)					
<b>Specific use(s)</b> Hardener.					
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.				
Other information	Observe technical data sheet.				
SECTION 8: Exposure contro	ols/personal protection				
8.1. Control parameters					
Exposure Limits					

Chemical name	European Union	United Kingdom
Methylenediphenyl diisocyanate	-	TWA: 0.02 mg/m <sup>3</sup>
26447-40-5		STEL: 0.07 mg/m <sup>3</sup>
		Sen+

Chemical name	European Union	Ireland	United Kingdom
Methylenediphenyl diisocyanate	-	1 µmol/mol Creatinine (urine -	-
26447-40-5		urinary Diamine post task)	

Derived No Effect Level (DNEL) No information available

## Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

## Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

### Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.
Hand protection	Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use:. Nitrile rubber. Viton <sup>™</sup> . Unsuitable protective clothing. Natural rubber. Disposable gloves. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. During spraying wear suitable respiratory equipment.
Recommended filter type:	Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

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

9.1. Information on basic physical	and chemical properties	
Physical state	Liquid	
Appearance	Viscous	
Colour	Beige	
Odour	No information available.	
Odour threshold	No information available	
Property_	Values	Remarks • Method
Melting point / freezing point	No data available	
Initial boiling point and boiling	No data available	None known
range		
Flammability	Not applicable for liquids	
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	219 °C	CC (closed cup)
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН	No data available	None known.
pH (as aqueous solution)	No data available	Not applicable
Kinematic viscosity	No data available	None known
Dynamic viscosity	20000 - 32000 mPas	Spindle A7 @ 20 rpm @ 23 °C
Water solubility	Immiscible in water.	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density	1.18 g/cm <sup>3</sup>	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
9.2. Other information	<b>N 1 7 1 1 1 1</b>	
Solid content (%)	No information available	NI 17 111
VOC content		No data available

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics 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	Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers. Exothermic reaction with. Amines. Alcohols.		
Hazardous polymerisation	Hazardous polymerisation may take place during a fire due to heat. Closed containers could violently rupture.		
10.4. Conditions to avoid			
Conditions to avoid	Excessive heat. Protect from moisture.		
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.		
SECTION 11: Toxicological information			
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. May cause additional

affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

#### Numerical measures of toxicity

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

ATEmix (oral)	>5000 mg/kg
ATEmix (dermal)	7,440.70 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	2.17 mg/l
ATEmix (inhalation-vapour)	>20 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Methylenediphenyl	>10000 mg/kg (Rattus)	> 10000 mg/kg (Oryctolagus	=490 mg/m <sup>3</sup> (Rattus) 4 h	
diisocyanate		cuniculus)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

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

#### **Component Information**

Methylenediphenyl diisocyanate (26447-40-5)

Method	Species	Results	
	in vivo	Limited evidence of a carcinogenic	
		effect	
Chemical name		European Union	
Methylenediphenyl diisocyanate		Carc. 2	

**Reproductive toxicity** 

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

STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.
11.2. Information on other hazards	<u>S</u>
11.2.1. Endocrine disrupting prop	erties
Endocrine disrupting properties	No information available.
11.2.2. Other information	
Other adverse effects	No information available.
Note:	PC-ADH-8 Multi-component adhesives and sealants Please also refer to the SDS for the other component(s) of the kit This product is part of a kit

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Methylenediphenyl diisocyanate 26447-40-5	EC50: =3230mg/L (96h, Skeletonema costatum)	-		EC50: >1000mg/L (24h, Daphnia magna)		

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

#### 12.3. Bioaccumulative potential

#### **Bioaccumulation**

#### **Component Information**

Chemical name	Partition coefficient	
Methylenediphenyl diisocyanate	4.5	

#### 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

### 12.6. Endocrine disrupting properties

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Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Waste codes / waste designations according to EWC	16 05 05 gases in pressure containers other than those mentioned in 16 05 04. 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 15 01 10*: Packaging containing residues of or contaminated by 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)

Land transport (ADR/RID)	
14.1 UN number or ID number	Not regulated
14.2 UN 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 precautions for user	
Special Provisions	None
IMDG	
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	NP
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk	
according to IMO instruments	
Transport in bulk according to	Annex II of MARPOL and the IBC Code Not applicable
Air transport (ICAO-TI / IATA-DGR)	
14.1 UN number or ID number	Not regulated
14.2 UN 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 precautions for user	
Special Provisions	None

### 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)

#### SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 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
Methylenediphenyl diisocyanate	26447-40-5	56. 74.
Diisocyantes		74

If product supplied to the general public with substance  $\geq 0.1\%$ , then gloves must be provided with the product. **74** If product supplied to the industrial or professional users with total monomeric diisocyanates  $\geq 0.1\%$ , then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use".

#### Substance subject to authorisation per REACH Annex XIV

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

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

## Persistent Organic Pollutants

Not applicable

#### National regulations

#### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

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Full text of H-Statements referred to under section 3 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				
Notes relating to the identification, classification and labelling of substances				
Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.				
	on the label whether the substance is a specific isomer or a mixture of isomers			
Notes relating to the classification				
<b>Note 2</b> : The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture				
Legend				
TWA	TWA (time-weighted average)			
STEL	STEL (Short Term Exposure Limit)			
Ceiling	Ceiling Limit Value			
*	Skin designation			
SVHC	Substance(s) of Very High Concern			
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals			
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals			
STOT RE	Specific target organ toxicity - Repeated exposure			
STOT SE	Specific target organ toxicity - Single exposure			
EWC	European Waste Catalogue			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
IMDG	International Maritime Dangerous Goods (IMDG)			
ΙΑΤΑ	International Air Transport Association (IATA)			
RID	Regulations concerning the International Transport of Dangerous Goods by Rail			
Key literature references and sources for data   No information available   Prepared By Product Safety & Regulatory Affairs   Revision date 21-Jun-2023				
Indication of changes				
Revision note Training Advice	SDS sections updated, 1, 2, 3, 5, 7, 9, 11, 12, 15. When working with hazardous materials, regular training of operators is required by law AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR PROFESSIONAL USE For further information, please contact: https://www.safeusediisocyanates.eu/			

**Further information** 

This material safety data sheet complies with requirements of UK REACH Regulations (SI 2019/758 as amended)

No information available

#### 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