

XPU 18045 An
Supersedes Date: 15-May-2020**Revision date** 15-May-2020
Revision Number 1**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product Identifier****Product Name** XPU 18045 An
Pure substance/mixture Mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Adhesives and/or sealants.
Uses advised against None known**1.3. Details of the supplier of the safety data sheet****Company Name**Bostik SA
420 rue d'Estienne d'Orves
92700 Colombes
FRANCE
Tel: +33 (0)1 49 00 90 00**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

Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label Elements

Contains: 2-Ethyl-1,3-hexanediol

**Signal word**
DANGER**Hazard statements**H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.**EU Specific Hazard Statements**

EUH208 - Contains Piperazine. May produce an allergic reaction.

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Precautionary statements

P273 - Avoid release to the environment.

P280 - Wear protective gloves and eye/face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P391 - Collect spillage.

Additional information

Please refer also to Safety Data Sheet of Part B.

2.3. Other Hazards

No information available

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	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
2-Ethyl-1,3-hexanediol	202-377-9	94-96-2	5 - <10	Eye Dam. 1 (H318)		01-2119985706-21-XXXX
Diisopropylnaphthalene	254-052-6	38640-62-9	1- <2.5	Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410)		01-2119565150-48-XXXX
Piperazine	203-808-3	110-85-0	0.1 - <1	Skin Corr. 1B (H314) Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Repr. 2 (H361fd) Flam. Sol. 1 (H228)		01-2119480384-35-XXXX

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

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)

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SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical advice/attention. 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.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
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 Burning sensation.

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 chemical Thermal decomposition can lead to release of toxic and corrosive gases/vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required.
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

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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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Please refer also to Safety Data Sheet of Part B.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

7.3. Specific end use(s)

Specific Use(s)
Adhesives and/or sealants. Hardener.

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

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Ireland	United Kingdom
Limestone 1317-65-3	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Piperazine 110-85-0	TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³
1,2-Propylene glycol 57-55-6	-	TWA: 10 mg/m ³ TWA: 150 ppm TWA: 470 mg/m ³ STEL: 1410 mg/m ³ STEL: 30 mg/m ³ STEL: 450 ppm	TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1422 mg/m ³ STEL: 30 mg/m ³

Derived No Effect Level (DNEL) No information available

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Derived No Effect Level (DNEL)			
2-Ethyl-1,3-hexanediol (94-96-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Systemic health effects Long term	Dermal	76.3 mg/kg bw/d	
worker Systemic health effects Short term	Dermal	228.9 mg/kg bw/d	

Diisopropylnaphthalene (38640-62-9)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term	Dermal	4.3 mg/kg bw/d	
worker Long term	Inhalation	30 mg/m ³	

Piperazine (110-85-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	0.1 mg/m ³	
worker Long term Local health effects	Inhalation	0.3 mg/m ³	
worker Long term Systemic health effects	Dermal	0.014 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	0.042 mg/kg bw/d	

Derived No Effect Level (DNEL)			
2-Ethyl-1,3-hexanediol (94-96-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	0.17 mg/kg bw/d	
Consumer Short term	Oral	0.51 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	38.2 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	114.5 mg/kg bw/d	

Diisopropylnaphthalene (38640-62-9)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term	Oral	2.1 mg/kg bw/d	
Consumer Long term	Dermal	4.3 mg/kg bw/d	
Consumer Long term	Inhalation	30 mg/m ³	

Piperazine (110-85-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	1.5 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
2-Ethyl-1,3-hexanediol (94-96-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.1 mg/l

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Marine water	0.01 mg/l
Freshwater sediment	1.6 mg/kg dry weight
Marine sediment	0.16 mg/kg dry weight
Soil	0.17 mg/kg dry weight
Microorganisms in sewage treatment	3 mg/l

Diisopropyl naphthalene (38640-62-9)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.26 µg/l
Marine water	26 µg/l
Freshwater sediment	0.94 mg/kg dry weight
Marine sediment	94 mg/kg dry weight
Soil	0.19 mg/kg dry weight
Microorganisms in sewage treatment	0.15 mg/l

Piperazine (110-85-0)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1.25 mg/l
Marine water	0.125 mg/l
Microorganisms in sewage treatment	54 mg/l
Freshwater sediment	4.5 mg/kg dry weight
Marine sediment	0.45 mg/kg dry weight
Soil	11.5 mg/kg dry weight

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).

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use: Nitrile rubber. Viton™. Unsuitable protective clothing. Natural rubber. Disposable gloves. 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 for the mentioned glove material is in general greater than 480 min.

Skin and body protection Wear suitable protective clothing.

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.

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 Viscous

Colour Blue

Odour No information available

Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	= 147 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	Not applicable for liquids .	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	

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Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available -	
Water solubility	Insoluble in water	
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	47000 mPa s	Spindle A7 @ 20 rpm @ 23 °C
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
VOC Content (%)	No information available
Density	1.42 g/cm ³

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 Keep from freezing.

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 toxicological effects

Information on likely routes of exposure

Product Information

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

Eye contact Causes serious eye damage.

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Skin contact May cause irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Numerical measures of toxicity

Acute Toxicity

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

ATEmix (dermal) 14,029.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethyl-1,3-hexanediol 94-96-2	>2000 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus cuniculus)	>3.8 mg/L (Rattus) 4 h
Diisopropylnaphthalene 38640-62-9	LD50 = 4130 mg/kg (Rattus) OECD 401	> 4500 mg/kg (Rattus)	>5.64 mg/L (Rattus) 4 h
Piperazine 110-85-0	=2500 mg/kg (Rattus)	= 3500 mg/kg (Oryctolagus cuniculus)	

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

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.

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

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Piperazine 110-85-0	Repr. 2

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.

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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	M-Factor (long-term)
2-Ethyl-1,3-hexanediol 94-96-2	>100 mg/l (Desmodesmus subspicatus)	LD50=624 mg/L (Ictalurus punctatus)	-	>100 mg/l (Daphnia magna)		
Diisopropylnaphthalene 38640-62-9	NOEC (72h) = 0.15 mg/l (Desmodesmus subspicatus) DIN 38412 part 9	>0.5 mg/l	-	EL50 (48h) = 1.7 mg/l (Daphnia magna) OECD 202		
Piperazine 110-85-0	-	LC50: >10000mg/L (96h, Lepomis macrochirus)	EC50 = 430 mg/L 30 min	EC50 96 h = 31 mg/L (Daphnia magna)		

12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information

2-Ethyl-1,3-hexanediol (94-96-2)

Method	Exposure time	Value	Results
OECD Test No. 301E: Ready Biodegradability: Modified OECD Screening Test (TG 301 E)	27 days	93%	Readily biodegradable

Piperazine (110-85-0)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	65%	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
2-Ethyl-1,3-hexanediol 94-96-2	3	-
Diisopropylnaphthalene 38640-62-9	6	770
Piperazine 110-85-0	-	3.9

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

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PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
2-Ethyl-1,3-hexanediol 94-96-2	The substance is not PBT / vPvB
Diisopropyl-naphthalene 38640-62-9	The substance is not PBT / vPvB
Piperazine 110-85-0	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.
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	15 01 10*: Packaging containing residues of or contaminated by dangerous substances. 16 03 03* inorganic wastes containing hazardous substances. 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

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material. Keep from freezing.

Land transport (ADR/RID)

14.1 UN Number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Diisopropyl-naphthalene)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing Group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Diisopropyl-naphthalene), 9, III, (-)
14.5 Environmental hazards	Yes
14.6 Special Provisions	274, 335, 601, 375
Classification Code	M6
Tunnel restriction code	(-)
Limited Quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	90

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IMDG

14.1 UN number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Diisopropyl-naphthalene), Marine Pollutant
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Diisopropyl-naphthalene), 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	Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Diisopropyl-naphthalene)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Diisopropyl-naphthalene), 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)

SVHC: Substances of Very High Concern for Authorisation:

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)

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).

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)

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

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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

H228 - Flammable solid
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
H410 - Very toxic to aquatic life with long lasting effects

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

Key literature references and sources for data

No information available

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Indication of changes

Revision note SDS sections updated: 8, 11, 12, 9.

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,

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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