

## PA1005 POLYASPARTIC POLYUREA-B

### Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 5/8/2015

Revision date: 1/4/2016

Supersedes: 5/8/2015 Version: 1.0

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

##### 1.1. Product identifier

Product form : Mixture  
Trade name : PA1005 POLYASPARTIC POLYUREA-B  
Product code : PA1005  
Type of product : Coating  
Product group : Trade product

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

###### 1.2.1. Relevant identified uses

Intended for general public

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

AKKİM YAPI KİMYASALLARI SANAYİ ve TİCARET A.Ş.  
Yeşilbayır mahallesi Şimşir sokak No:22  
34555 İSTANBUL - TURKEY  
T +90 2127711371 - F +90 2127713888  
[info@akfixcoating.com](mailto:info@akfixcoating.com), [info@akfix.com](mailto:info@akfix.com) - [www.akfixcoating.com](http://www.akfixcoating.com), [www.akfix.com](http://www.akfix.com)

##### 1.4. Emergency telephone number

Emergency number : +90 2127711371 (9:00 am - 17:00 pm GMT+2)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

#### SECTION 2: Hazards identification

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

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

Acute toxicity (inhalation:vapour) Category 4 H332 Calculation method  
Sensitisation — Skin, Category 1 H317 Calculation method  
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335 Calculation method

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful if inhaled. May cause respiratory irritation. May cause an allergic skin reaction.

##### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazardous ingredients : hexamethylene-di-isocyanate; Hexane, 1,6-diisocyanato-, homopolymer  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
Precautionary statements (CLP) : P261 - Avoid breathing fume, gas, mist, vapours

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P280 - Wear protective gloves  
 P302+P352 - IF ON SKIN: Wash with plenty of water  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 P312 - Call a doctor, a POISON CENTER if you feel unwell  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Security closing plug for children : Not applicable  
 Tactile warning : Applicable

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hexane, 1,6-diisocyanato-, homopolymer	(CAS No) 28182-81-2 (REACH-no) 01-2119485796-17	100	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
hexamethylene-di-isocyanate (Note 2)	(CAS No) 822-06-0 (EC no) 212-485-8 (EC index no) 615-011-00-1 (REACH-no) 01-2119457571-37	<= 0.25	Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
hexamethylene-di-isocyanate	(CAS No) 822-06-0 (EC no) 212-485-8 (EC index no) 615-011-00-1 (REACH-no) 01-2119457571-37	(C >= 0.5) Resp. Sens. 1, H334 (C >= 0.5) Skin Sens. 1, H317

Note 2 : The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.  
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.  
 First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  
 First-aid measures after eye contact : Rinse eyes with water as a precaution.  
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.  
 Symptoms/injuries after skin contact : May cause an allergic skin reaction.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

PA1005 POLYASPARTIC POLYUREA-B		
Austria	Local name	Hexamethylen-1,6-diisocyanat
Austria	MAK (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Austria	MAK (ppm)	0.005 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	0.005 ppm
Austria	Remark (AT)	Sah
Belgium	Local name	Diisocyanate d'hexaméthylène
Belgium	Limit value (mg/m <sup>3</sup> )	0.034 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	0.005 ppm
Bulgaria	Local name	Хексаметилендиизоцианат
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Czech Republic	Local name	Hexamethylen-1,6-diisokyanát
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	0.00508 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	0.07 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	0.0102 ppm

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Czech Republic	Remark (CZ)	S
Denmark	Local name	Hexamethylendiisocyanat
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	0.005 ppm
Estonia	Local name	Heksametüleen-diisotsüanaat (1,6-diisotsüanato-heksaan)
Estonia	OEL TWA (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup>
Estonia	OEL TWA (ppm)	0.005 ppm
Estonia	OEL STEL (mg/m <sup>3</sup> )	0.07 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	0.01 ppm
France	Local name	Diisocyanate d'hexaméthylène (3)
France	VME (mg/m <sup>3</sup> )	0.075 mg/m <sup>3</sup>
France	VME (ppm)	0.01 ppm
France	VLE (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>
France	VLE (ppm)	0.02 ppm
Germany	Local name	Hexamethylen-1,6-diisocyanat
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.005 ppm
Germany	Remark (TRGS 900)	DFG,12,Sa
Hungary	Local name	hexametilén-diizocianát (HDI)
Hungary	AK-érték	0.035 mg/m <sup>3</sup>
Hungary	CK-érték	0.035 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i, sz; I.
Ireland	Local name	Hexamethylene diisocyanate (as -NCO)
Ireland	OEL (8 hours ref) (ppm)	0.005 ppm
Ireland	Notes (IE)	Sen
Latvia	Local name	Heksametilēndiizocianāts (1,6-heksāndiizocianāts)
Latvia	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Lithuania	Local name	Heksametilendiizocianatas (HDI)
Lithuania	IPRV (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	0.005 ppm
Lithuania	NRV (mg/m <sup>3</sup> )	0.07 mg/m <sup>3</sup>
Lithuania	NRV (ppm)	0.01 ppm
Lithuania	Remark (LT)	Ū J
Poland	Local name	Diizocyjanian heksano-1,6-diyłu
Poland	NDS (mg/m <sup>3</sup> )	0.04 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	0.08 mg/m <sup>3</sup>
Portugal	Local name	Diisocianato de hexametileno
Portugal	OEL TWA (ppm)	0.005 ppm
Romania	Local name	Hexametilen-diizocianat
Romania	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	0.007 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	0.14 ppm
Slovenia	Local name	heksametilen-1,6-diizocianat
Slovenia	OEL TWA (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	0.005 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	0.005 ppm
Spain	Local name	Diisocianato de 1,6-hexametileno (HDI)
Spain	VLA-ED (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	0.005 ppm
Spain	Notes	Sen (Sensibilizante. Véase Apartado 6.)
Sweden	Local name	Hexamethylene diisocyanate
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0.002 ppm

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Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup>
Sweden	takgränsvärde (TGV) (ppm)	0.005 ppm
Norway	Local name	Heksan-1,6-diisocyanat
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0.035 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	0.005 ppm
Norway	Merknader (NO)	A
Australia	Local name	Hexamethylene diisocyanate
Australia	TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup>
Australia	STEL (mg/m <sup>3</sup> )	0.07 mg/m <sup>3</sup>
USA - ACGIH	Local name	Hexamethylene diisocyanate
USA - ACGIH	ACGIH TWA (ppm)	0.005 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; resp sens

### 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
Environmental exposure controls	: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Colorless liquid.
Colour	: Colourless. light yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 150 °C
Flash point	: > 160 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: 13 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.15 - 1.17 g/cm <sup>3</sup>
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 720 - 750 mPa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Inhalation:vapour: Harmful if inhaled.

ATE CLP (vapours)	10.900 mg/l/4h
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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity	: Not classified
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Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
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Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable  
UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

##### ADN

Transport hazard class(es) (ADN) : Not applicable

##### RID

Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

Not applicable

##### - Transport by sea

Not applicable

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### - Air transport

Not applicable

### - Inland waterway transport

Not applicable

### - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation





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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

