P636 FIRE RATED PU SEALANT

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 10/2/2014 Revision date: 12/21/2015 Supersedes: 10/2/2014 Version: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	P636 FIRE RATED PU SEALANT
Product code	:	P636
Type of product	:	Adhesives, Sealants
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@akfix.com - 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] Mixtu... ubs...

Sensitisation — Respiratory, Category 1 H334 Calculation method

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

Adverse physicochemical, human health and environmental effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS08

Signal word (CLP)	:	Danger
Hazardous ingredients	:	4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate
Hazard statements (CLP)	:	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements (CLP)	:	P102 - Keep out of reach of children P261 - Avoid breathing fume, mist, vapours P284 - [In case of inadequate ventilation] wear respiratory protection P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

Child-resistant fastening : 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]
xylene (Note C)	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (Note C)(Note 2)	(CAS No) 101-68-8 (EC no) 202-966-0 (EC index no) 615-005-00-9 (REACH-no) 01-211945701447-0000	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-	(CAS No) 2530-83-8 (REACH-no) 01-211937949916	< 1	Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate	(CAS No) 101-68-8 (EC no) 202-966-0 (EC index no) 615-005-00-9 (REACH-no) 01-211945701447-0000	(C >= 0.1) Resp. Sens. 1, H334 (C >= 5) Eye Irrit. 2, H319 (C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335

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.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water.

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 allergy or asthma symptoms or breathing difficulties if inhaled.

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.

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.

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 : Recover mechanically the product.

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 : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : 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 in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

P636 FIRE RATED PU SEALANT		
Austria	Local name	Diphenylmethan-4,4'-diisocyanat
Austria	MAK (mg/m³)	0.05 mg/m³
Austria	MAK (ppm)	0.005 ppm
Austria	MAK Short time value (mg/m³)	0.1 mg/m³
Austria	MAK Short time value (ppm)	0.01 ppm
Austria	Remark (AT)	Sah
Belgium	Local name	4,4'-Diisocyanate de diphénylméthane (MDI)
Belgium	Limit value (mg/m³)	0.052 mg/m³
Belgium	Limit value (ppm)	0.005 ppm
Czech Republic	Local name	Difenylmethan-4,4'-diisokyanát
Czech Republic	Expoziční limity (PEL) (mg/m³)	0.05 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	0.005 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	0.1 mg/m³
Czech Republic	Expoziční limity (NPK-P) (ppm)	0.01 ppm
Czech Republic	Remark (CZ)	S
Denmark	Local name	Diphenylmethan-4,4'-diisocyanat
Denmark	Grænseværdie (langvarig) (mg/m³)	0.05 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	0.005 ppm

Estonia	Local name	4,4'-metüleendifenüül-diisotsüanaat (fenüülisotsüanaat)
Estonia	OEL TWA (mg/m³)	0.05 mg/m³
Estonia	OEL TWA (ppm)	0.005 ppm
Estonia	OEL STEL (ppm)	0.1 ppm
France	Local name	4,4'-Diisocyanate de diphénylméthane (3)
France	VME (mg/m³)	0.1 mg/m³
France	VME (ppm)	0.01 ppm
France	VLE (mg/m³)	0.2 mg/m³
France	VLE (ppm)	0.02 ppm
Germany	Local name	4,4'-Methylendiphenyldiisocyanat
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	0.05 mg/m³
Germany	Remark (TRGS 900)	DFG,11,12,Sa,Y
Greece	OEL TWA (mg/m³)	0.2 mg/m³
Greece	OEL TWA (ppm)	0.02 ppm
Greece	OEL STEL (mg/m³)	0.2 mg/m³
Greece	OEL STEL (ppm)	0.02 ppm
Hungary	Local name	difenilmetán-4,4'-diizocianát (MDI)
Hungary	AK-érték	0.05 mg/m³
Hungary	CK-érték	0.05 mg/m³
Hungary	Megjegyzések (HU)	i, sz; I.
Ireland	Local name	4,4'-Methylene-diphenyl diisocyanate (as —NCO)
Ireland	OEL (8 hours ref) (mg/m³)	0.02 mg/m³
Ireland	OEL (15 min ref) (mg/m3)	0.07 mg/m³
Ireland	Notes (IE)	Sen
Lithuania	Local name	Metileno bisfenilizocianatas (MDI)
Lithuania	IPRV (mg/m³)	0.05 mg/m³
Lithuania	IPRV (ppm)	0.005 ppm
Lithuania	NRV (mg/m³)	0.1 mg/m³
Lithuania	NRV (ppm)	0.01 ppm
Lithuania	Remark (LT)	J
Poland	Local name	Metylenobis(fenyloizocyjanian (diizocyjanian 4,4'-metylenodifenylu)
Poland	NDS (mg/m³)	0.03 mg/m³
Poland	NDSCh (mg/m³)	0.09 mg/m³
Portugal	Local name	Metilenodifenilisocianato (MDI)
Portugal	OEL TWA (ppm)	0.005 ppm
Slovenia	Local name	difenilmetan-4,4′-diizocianat (4,4'-metilendifenil diizocianat)
Slovenia	OEL TWA (mg/m³)	0.05 mg/m³
Slovenia	OEL STEL (mg/m³)	0.05 mg/m³
Spain	Local name	Diisocianato de 4,4´-difenilmetano (MDI)
Spain	VLA-ED (mg/m³)	0.052 mg/m³
Spain	VLA-ED (ppm)	0.005 ppm
Spain	Notes	Sen (Sensibilizante. Véase Apartado 6.)
Sweden	Local name	4,4´-Methylenediphenyl diisocyanate
Sweden	nivågränsvärde (NVG) (mg/m³)	0.03 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	0.002 ppm
Sweden	takgränsvärde (TGV) (mg/m³)	0.05 mg/m³
Sweden	takgränsvärde (TGV) (ppm)	0.005 ppm
Norway	Local name	Difenylmetan-4,4-diisocyanat (MDI)
Norway	Grenseverdier (AN) (mg/m³)	0.05 mg/m³
Norway	Grenseverdier (AN) (ppm)	0.005 ppm
Norway	Merknader (NO)	A
Australia	Local name	Methylene bisphenyl isocyanate (MDI)
Australia	TWA (mg/m³)	0.02 mg/m³

Australia	STEL (mg/m³)	0.07 mg/m³
USA - ACGIH	Local name	Methylene bisphenyl isocyanate (MDI)
USA - ACGIH	ACGIH TWA (ppm)	0.01 ppm
USA - ACGIH	Remark (ACGIH)	Resp sens

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)		
Austria	Local name	Diphenylmethan-4,4'-diisocyanat
Austria	MAK (mg/m³)	0.05 mg/m³
Austria	MAK (ppm)	0.005 ppm
Austria	MAK Short time value (mg/m³)	0.1 mg/m³
Austria	MAK Short time value (ppm)	0.01 ppm
Austria	Remark (AT)	Sah
Belgium	Local name	4,4'-Diisocyanate de diphénylméthane (MDI)
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Czech Republic	Expoziční limity (PEL) (mg/m³)	0.05 mg/m³
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Estonia	OEL TWA (ppm)	0.005 ppm
Estonia	OEL STEL (ppm)	0.1 ppm
France	Local name	4,4'-Diisocyanate de diphénylméthane (3)
France	VME (mg/m³)	0.1 mg/m³
France	VME (ppm)	0.01 ppm
France	VLE (mg/m³)	0.2 mg/m³
France	VLE (ppm)	0.02 ppm
Germany	Local name	4,4'-Methylendiphenyldiisocyanat
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	0.05 mg/m³
Germany	Remark (TRGS 900)	DFG,11,12,Sa,Y
Greece	OEL TWA (mg/m³)	0.2 mg/m³
Greece	OEL TWA (ppm)	0.02 ppm
Greece	OEL STEL (mg/m³)	0.2 mg/m³
Greece	OEL STEL (ppm)	0.02 ppm
Hungary	Local name	difenilmetán-4,4'-diizocianát (MDI)
Hungary	AK-érték	0.05 mg/m³
Hungary	CK-érték	0.05 mg/m³
Hungary	Megjegyzések (HU)	i, sz; I.
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Ireland	OEL (8 hours ref) (mg/m³)	0.02 mg/m³
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Ireland	Notes (IE)	Sen
Lithuania	Local name	Metileno bisfenilizocianatas (MDI)
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Lithuania	IPRV (ppm)	0.005 ppm
Lithuania	NRV (mg/m³)	0.1 mg/m³
Lithuania	NRV (ppm)	0.01 ppm
Lithuania	Remark (LT)	J
Poland	Local name	Metylenobis(fenyloizocyjanian (diizocyjanian 4,4'-metylenodifenylu)
Poland	NDS (mg/m³)	0.03 mg/m³

Poland	NDSCh (mg/m³)	0.09 mg/m³
Portugal	Local name	Metilenodifenilisocianato (MDI)
Portugal	OEL TWA (ppm)	0.005 ppm
Slovenia	Local name	difenilmetan-4,4′-diizocianat (4,4’-metilendifenil diizocianat)
Slovenia	OEL TWA (mg/m³)	0.05 mg/m³
Slovenia	OEL STEL (mg/m³)	0.05 mg/m³
Spain	Local name	Diisocianato de 4,4´-difenilmetano (MDI)
Spain	VLA-ED (mg/m³)	0.052 mg/m³
Spain	VLA-ED (ppm)	0.005 ppm
Spain	Notes	Sen (Sensibilizante. Véase Apartado 6.)
Sweden	Local name	4,4´-Methylenediphenyl diisocyanate
Sweden	nivågränsvärde (NVG) (mg/m³)	0.03 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	0.002 ppm
Sweden	takgränsvärde (TGV) (mg/m³)	0.05 mg/m³
Sweden	takgränsvärde (TGV) (ppm)	0.005 ppm
Norway	Local name	Difenylmetan-4,4-diisocyanat (MDI)
Norway	Grenseverdier (AN) (mg/m³)	0.05 mg/m³
Norway	Grenseverdier (AN) (ppm)	0.005 ppm
Norway	Merknader (NO)	A
Australia	Local name	Methylene bisphenyl isocyanate (MDI)
Australia	TWA (mg/m³)	0.02 mg/m³
Australia	STEL (mg/m³)	0.07 mg/m³
USA - ACGIH	Local name	Methylene bisphenyl isocyanate (MDI)
USA - ACGIH	ACGIH TWA (ppm)	0.01 ppm
USA - ACGIH	Remark (ACGIH)	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 : Solid

Appearance : Paste.

Colour : Various.

Odour : characteristic.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable

Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	Not applicable
Density	:	1.2 - 1.25 g/ml
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	Not applicable

9.2. Other information

VOC content	:	< 40 g/l

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	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
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 or 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

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

- 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

VOC content	:	< 40 g/l

15.1.2. National regulations

Germany

VwVwS Annex reference	:	Water hazard class (WGK) 2, hazard to waters (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	:	xylene is listed

Denmark

Classification remarks	:	Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with 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. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
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

SDS EU AKFIX

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