

PU 301 CS40

SAFETY DATA SHEET

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

1.1. Product identifier

Product form : Mixture
Trade name : PU 301-CS40
Product code : 301 -CS40
Type of product : Adhesives, sealants

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

ADROIT ENDÜSTRİYEL YAPIŞTIRICI VE KİMYA SAN.TİC.A.Ş.
Ayazağa Mah. Mimar Sinan Sok. Seba Ofis Bulvarı İş Merkezi No :21
D- Blok 9. Kat 64 Numaralı Ofis Sarıyer - İSTANBUL
TEL: 0212 269 36 65
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1.4. Emergency telephone number

Emergency number (0212) 269 36 65 (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, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2 : Hazards identification

2.1. Classification of the substance or mixture

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

Respiratory sensitisation, Category 1 H334

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

Hazard pictograms (CLP) :

[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 and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Extra phrases : Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
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.
- Child-resistant fastening : Not applicable
Tactile warning : Applicable

2.3. Other hazards

No additional information available

SECTION 3 : Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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	2 - 7	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
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 (RE ACH- 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.



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 and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Extra phrases	: Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. 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.
Child-resistant fastening Tactile warning : Applicable	: Not applicable

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/effects 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.



Xylene (1330-20-7)		
EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m ³)	221 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	442 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
Belgium	Limit value (mg/m ³)	221 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	442 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Croatia	Local name	Ksilen (svi izomeri)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	221 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti)	442 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti)	100 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	440 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 mg/m ³
Germany	Remark (TRGS 900)	DFG,EU,H
Gibraltar	Eight hours mg/m ³	221 mg/m ³
Gibraltar	Eight hours ppm	50 ppm
Gibraltar	Short-term mg/m ³	442 mg/m ³
Gibraltar	Short-term ppm	100 ppm
Ireland	Local name	Xylene, mixed isomers
Ireland	OEL (8 hours ref) (mg/m ³)	221 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	442 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Italy	OEL TWA (mg/m ³)	221 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	442 mg/m ³
Italy	OEL STEL (ppm)	100 ppm
Latvia	Local name	Ksilols (o-,m-,p-ksilols, dimetilbenzols)
Latvia	OEL TWA (mg/m ³)	221 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Latvia	OEL STEL (mg/m ³)	442 mg/m ³
Latvia	OEL STEL (ppm)	100 ppm
Luxembourg	Local name	Xylène, isomères mixtes, purs
Luxembourg	OEL TWA (mg/m ³)	221 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	442 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	Local name	Xylene, mixed isomers, pure
Malta	OEL TWA (mg/m ³)	221 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	442 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Romania	Local name	Xilen (izomeri)
Romania	OEL TWA (mg/m ³)	221 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	442 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovenia	Local name	ksilen (mešane izomere)
Slovenia	OEL TWA (mg/m ³)	221 mg/m ³



Spain	Local name	Xilenos, mezcla isómeros
Spain	VLA-ED (mg/m ³)	221 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m ³)	442 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
USA - OSHA	Local name	Xylenes (o-, m-, p-isomers)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)		
Austria	Local name	Diphenylmethan-4,4'-diisocyanat
Austria	MAK (mg/m ³)	0.05 mg/m ³
Austria	MAK (ppm)	0.005 ppm
Austria	MAK Short time value (mg/m ³)	0.1 mg/m ³
Austria	MAK Short time value (ppm)	0.01 ppm
Belgium	Limit value (mg/m ³)	0.052 mg/m ³
Belgium	Limit value (ppm)	0.005 ppm
Czech Republic	Local name	Difenylmethan-4,4'-diisokyanát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0.05 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	0.005 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	0.1 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	0.01 ppm
Denmark	Grænseværdie (langvarig) (mg/m ³)	0.05 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	0.005 ppm
Estonia	Local name	4,4'-metüleendifenüül-diisotsüanaat (fenüülisotsüanaat)
Estonia	OEL TWA (mg/m ³)	0.05 mg/m ³
Estonia	OEL TWA (ppm)	0.005 ppm
Estonia	OEL STEL (ppm)	0.1 ppm
France	Local name	4,4'-Diisocyanate de diphenylméthane
France	VME (mg/m ³)	0.1 mg/m ³
France	VME (ppm)	0.01 ppm
France	VLE (mg/m ³)	0.2 mg/m ³
France	VLE (ppm)	0.02 ppm
Germany	Local name	4,4'-Methylenediphenyldiisocyanat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0.05 mg/m ³ E (mg/m ³)
Germany	Remark (TRGS 900)	DFG, 11, 12, H, Sah, Y
Greece	OEL TWA (mg/m ³)	0.2 mg/m ³
Greece	OEL TWA (ppm)	0.02 ppm
Greece	OEL STEL (mg/m ³)	0.2 mg/m ³
Greece	OEL STEL (ppm)	0.02 ppm
Hungary	Local name	difenilmetán-4,4'-diizocianát (MDI)
Hungary	AK-érték	0.05 mg/m ³
Hungary	CK-érték	0.05 mg/m ³
Ireland	Local name	4,4'-Methylene-diphenyl diisocyanate (as -NCO)
Ireland	OEL (8 hours ref) (mg/m ³)	0.02 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0.07 mg/m ³
Lithuania	Local name	Metileno bisfenilizocianatas (MDI)
Lithuania	IPRV (mg/m ³)	0.05 mg/m ³
Lithuania	IPRV (ppm)	0.005 ppm
Lithuania	NRV (mg/m ³)	0.1 mg/m ³
Lithuania	NRV (ppm)	0.01 ppm



Poland	NDS (mg/m ³)	0.03 mg/m ³
Poland	NDSCh (mg/m ³)	0.09 mg/m ³
Portugal	Local name	Metilenodifenilisocianato (MDI)
Portugal	OEL TWA (ppm)	0.005 ppm
Slovenia	OEL TWA (mg /m ³)	0.05 mg/m ³
Slovenia	OEL STEL (mg/m ³)	0.05 mg/m ³
Spain	Local name	Diisocianato de 4,4´ -difenilmetano (MDI)
Spain	VLA -ED (mg/m ³)	0.052 mg/m ³
Spain	VLA -ED (ppm)	0.005 ppm
Sweden	Local name	4,4´ -Metylendifenylidiisocyanat # MDI
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.03 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0.002 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	0.05 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	0.005 ppm
Norway	Grenseverdier (AN) (mg/m ³)	0.05 mg/m ³
Norway	Grenseverdier (AN) (ppm)	0.005 ppm
Norway	Grenseverdier (Korttidsverdi) (ppm)	0.01 ppm
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 : [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



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 : White. Black. Grey.
- Odour : Characteristic.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=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	: 1,33 ± 0,03 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 : < 69 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 - Description	: Not classified

Reproductive toxicity	: Not classified
STOT -single exposure	: Not classified



STOT -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

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:		
Reference code	Applicable on	Entry title or description
56.	4,4'-methylenediphenyl diisocyanate; diphenylmethane -4,4' -diisocyanate	Methylenediphenyl diisocyanate (MDI)
56(a)	4,4'-methylenediphenyl diisocyanate; diphenylmethane -4,4' -diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4' -Methylenediphenyl diisocyanate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances



15.1.1. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, significant 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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 1 6: 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
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, 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.
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.

ADROIT SDS EU

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