

Soudal Timber Adhesive Pro 45P

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: Soudal Timber Adhesive Pro 45P

1.2 Use of the substance/preparation:

Adhesive

1.3 Company/undertaking identification:

SOUDAL N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 Tel: +32 14 42 42 31
 Fax: +32 14 44 39 71
 msds@soudal.com

1.4 Emergency telephone:

24h/24h: +32 14 58 45 45 (BIG)

2. Hazards identification

DSD/DPD

Classified dangerous in accordance with Directives 67/548/EEC and 1999/45/EC

Flammable

Harmful by inhalation

Irritating to eyes, respiratory system and skin

Limited evidence of a carcinogenic effect

May cause sensitisation by inhalation and skin contact

Harmful: danger of serious damage to health by prolonged exposure through inhalation

Other hazards

May be ignited by sparks

Contains a substance which (possibly) impairs fertility

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note
xylene	1330-20-7 215-535-7	C<12.5%	Xn: R20/21 Xi: R38 R10	Flam. Liq. 3: H226 Acute Tox. 4: H332 Acute Tox. 4: H312 Skin Irrit. 2: H315	(1)(2)
ethylbenzene	100-41-4 202-849-4	1%<C<25%	F: R11 Xn: R20	Flam. Liq. 2: H225 Acute Tox. 4: H332	(1)(2)
polymethylene polyphenyl isocyanate	9016-87-9	C>25%	Carc. Cat. 3: R40 Xn: R20 - 48/20 Xi: R36/37/38 R42/43	Carc. 2: H351 Acute Tox. 4: H332 STOT RE 2: H373 Eye Irrit. 2: H319 STOT SE 3: H335 Skin Irrit. 2: H315 Resp. Sens. 1: H334 Skin Sens. 1: H317	(1)(2)

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

4. First aid measures

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4.1 After inhalation:

Remove the victim into fresh air
Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Wash immediately with lots of water
Soap may be used
Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse immediately with plenty of water
Do not apply neutralizing agents
Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

Rinse mouth with water
Do not induce vomiting
Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Water spray
Polyvalent foam
BC powder
Carbon dioxide

5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

5.3 Special exposure hazards:

May be ignited by sparks
On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide)
On heating: release of toxic/combustible gases/vapours (hydrogen cyanide)

5.4 Instructions:

If exposed to fire cool the closed containers by spraying with water
Do not move the load if exposed to heat
Dilute toxic gases with water spray
Take account of environmentally hazardous firefighting water
Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:

Gloves
Face-shield
Protective clothing
Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill
Prevent soil and water pollution
Prevent spreading in sewers
Use appropriate containment to avoid environmental contamination
See heading 13

6.3 Methods for cleaning up:

Allow product to solidify and remove it by mechanical means
Clean (treat) contaminated surfaces with acetone
Take collected spill to manufacturer/competent authority
Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

Keep away from naked flames/heat
Observe very strict hygiene - avoid contact
Keep container tightly closed
Insufficient ventilation: keep naked flames/sparks away
Take precautions against electrostatic charges
Do not discharge the waste into the drain
Insufficient ventilation: use spark-/explosionproof appliances and lighting system

7.2 Storage:

Safe storage requirements:

Store at room temperature
Meet the legal requirements
Max. storage time: 1 year(s)

Keep away from:

(strong) acids
(strong) bases

Suitable packaging material:

synthetic material

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

Regulatory exposure limit (The Netherlands)

Ethylbenzeen	Short time value	100 ppm 430 mg/m ³
	Time-weighted average exposure limit	50 ppm 215 mg/m ³
Xyleen (o-,m- en p-isomeren)	Short time value	100 ppm 442 mg/m ³
	Time-weighted average exposure limit	50 ppm 210 mg/m ³

Indicative exposure limit EU (Directives 2009/19/EU, 2006/15/EC, 2000/39/EC, 98/27/EC, 96/94/EC, 91/322/EEC)

Ethylbenzeen	Short time value	200 ppm 884 mg/m ³
	Time-weighted average exposure limit	100 ppm 442 mg/m ³
Xyleen, mengsel van isomeren, zuiver	Short time value	100 ppm 442 mg/m ³
	Time-weighted average exposure limit	50 ppm 221 mg/m ³

Limit Value (Belgium)

Ethylbenzeen	Short time value	125 ppm 551 mg/m ³
	Time-weighted average exposure limit	100 ppm 442 mg/m ³
Xyleen, mengsel van isomeren, zuiver	Short time value	100 ppm 442 mg/m ³
	Time-weighted average exposure limit	50 ppm 221 mg/m ³

TLV (USA)

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Ethyl benzene	Short time value	125 ppm
	Time-weighted average exposure limit	(100) ppm
Xylene (alle isomers)	Short time value	150 ppm
	Time-weighted average exposure limit	100 ppm

TRGS 900 (Germany)

Ethylbenzol	Time-weighted average exposure limit	100 ppm 440 mg/m ³
Xylol (alle Isomeren)	Time-weighted average exposure limit	100 ppm 440 mg/m ³

Limit Value (France)

Ethylbenzène	Short time value	100 ppm 442 mg/m ³
	Time-weighted average exposure limit	20 ppm 88.4 mg/m ³
Xylènes (isomères mixtes, purs)	Short time value	100 ppm 442 mg/m ³
	Time-weighted average exposure limit	50 ppm 221 mg/m ³

Limit Value (UK)

Isocyanates, all (as -NCO)	Short time value	-(-NCO) ppm 0.07(-NCO) mg/m ³
	Time-weighted average exposure limit	-(-NCO) ppm 0.02(-NCO) mg/m ³
Ethyl benzene	Short time value	125 ppm 552 mg/m ³
	Time-weighted average exposure limit	100 ppm 441 mg/m ³
Xylene, o-, m-, p- or mixed isomers	Short time value	100 ppm 441 mg/m ³
	Time-weighted average exposure limit	50 ppm 220 mg/m ³

8.1.2 Sampling methods:

Product name	Test	Number	Sampling method	Remarks
4,4-Methylene Bisphenyl Isocyanate (MDI) (Isocyanates)	NIOSH	5521	wet chemical	
Ethyl Benzene	OSHA	CSI		
Ethyl Benzene	OSHA	7	adsorption tubes	
Ethyl Benzene (Hydrocarbons, Aromatic)	NIOSH	1501	adsorption tubes	
Isocyanates	NIOSH	5521	wet chemical	
Isocyanates	NIOSH	5522	wet chemical	
Methylene Bisphenyl Isocyanate	OSHA	47		
Papi	OSHA	CSI		
Xylene	OSHA	CSI		
Xylene (Hydrocarbons, aromatic)	NIOSH	1501	adsorption tubes	
Xylene (o-, m-, & p-isomers)	OSHA	7	adsorption tubes	
Xylene (Volatile Organic compounds)	NIOSH	2549	adsorption tubes	

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Measure the concentration in the air regularly

Work under local exhaust/ventilation

Personal protective equipment:

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit

b) Hand protection:

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- Gloves
c) Eye protection:
Face shield
d) Skin protection:
Protective clothing
8.2.2 Environmental exposure controls:
See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Liquid
Odour	Solvent-like odour
Colour	Brown

9.2 Important health, safety and environmental information:

Flashpoint	35 °C
Relative density	1.1
Solubility in solvents	Soluble in organic solvents
Relative vapour density	> 2

9.3 Other information:

10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources
ignition sources

Stability

Stable under normal conditions

Reactions

Reacts violently with (some) acids/bases

10.2 Materials to avoid:

(strong) acids
(strong) bases

10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide)
On heating: release of toxic/combustible gases/vapours (hydrogen cyanide)

11. Toxicological information

11.1 Acute toxicity:

ethylbenzene

LD50 oral (rat)	3500 mg/kg
LD50 dermal (rabbit)	15415 mg/kg
LC50 inhalation (rat)	17 mg/l/4h

xylene

LD50 oral (rat)	3523 - 8600 mg/kg
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polymethylene polyphenyl isocyanate

LD50 oral (rat)	> 10000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg

11.2 Chronic toxicity:

No certainty about human carcinogenic properties
Not listed in mutagenicity class (EC,MAK)
Contains a substance which (possibly) impairs fertility

ethylbenzene

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IARC - classification	2B
TLV - Carcinogen	A3
MAK - Krebszeugend Kategorie	3A
MAK - Schwangerschaft Gruppe	-

xylene

IARC - classification	3
Listed in SZW - List of reprotoxic substances (development): category	Possibly hazardous to the foetus
TLV - Carcinogen	A4
MAK - Schwangerschaft Gruppe	D

polymethylene polyphenyl isocyanate

EC carc cat	3
IARC - classification	3
MAK - Krebszeugend Kategorie	4
MAK - Schwangerschaft Gruppe	C

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EC carc cat	3
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11.3 Acute effects/symptoms:

Inhalation:

Coughing
Irritation of the respiratory tract
Irritation of the nasal mucous membranes
Runny nose
EXPOSURE TO HIGH CONCENTRATIONS:
CNS depression
Dizziness
Narcosis
Headache
Disturbances of consciousness

Skin contact:

Tingling/irritation of the skin

Eye contact:

Irritation of the eye tissue

Ingestion:

AFTER ABSORPTION OF HIGH QUANTITIES:
CNS depression
Enlargement/affection of the liver
Symptoms similar to those listed under inhalation

11.4 Chronic effects:

Prolonged exposure: danger of damage to health through inhalation
ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
Dry skin
Itching
Skin rash/inflammation
Respiratory difficulties

12. Ecological information

12.1 Ecotoxicity:

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ethylbenzene

LC50 fishes

species	value	duration (h)	remarks
SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS	4.2 mg/l	96 h	INTERMITTENT FLOW

EC50 Daphnia

species	value	duration (h)	remarks
DAPHNIA MAGNA	75 mg/l	48 h	

EC50 other aquatic organisms

species	value	duration (h)	remarks
SELENASTRUM CAPRICORNUTUM	4.6 mg/l	72 h	OECD 201

xylene

LC50 fishes

species	value	duration (h)	remarks
SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS	3.77 mg/l	96 h	

EC50 Daphnia

species	value	duration (h)	remarks
DAPHNIA MAGNA	7.4 mg/l	48 h	

EC50 other aquatic organisms

species	value	duration (h)	remarks
SKELETONEMA COSTATUM	10 mg/l	72 h	

12.2 Mobility:

Volatile organic compounds (VOC)

7 %

VOC content (g/l)

77 g/l

Solubility in/reaction with water

Literature reports: insoluble in water

12.3 Persistence and degradability:

Contains non readily biodegradable component(s)

12.4 Bioaccumulative potential:

No bioaccumulation data available

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (1999/45/EC)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)

08 04 09* : waste adhesives and sealants containing organic solvents or other dangerous substances

Depending on branch of industry and production process, also other EURAL codes may be applicable

Hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

In authorized incinerator equipped with flue gas scrubber with energy recovery

Remove waste in accordance with local and/or national regulations

Do not discharge into drains or the environment

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)

15 01 10* : packaging containing residues of or contaminated by dangerous substances

14. Transport information

ADR

Proper shipping name	Adhesives, Special provision 640E
UN number	1133

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Class	3
Packing group	III
Hazard identification number	30
Classification code	F1
Labels	3
Environmentally hazardous substance mark	

RID

Proper shipping name	Adhesives, Special provision 640E
UN number	1133
Class	3
Packing group	III
Classification code	F1
Labels	3
Environmentally hazardous substance mark	

ADNR

Proper shipping name	Adhesives, Special provision 640E
UN number	1133
Class	3
Packing group	III
Classification code	F1
Labels	3
Environmentally hazardous substance mark	

IMO

Proper shipping name	Adhesives
UN number	1133
Class	3
Packing group	III
Labels	3
Marine pollutant	
Environmentally hazardous substance mark	

ICAO

Proper shipping name	Adhesives
UN number	1133
Class	3
Packing group	III
Labels	3
Environmentally hazardous substance mark	

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC



Harmful

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Contains: polymethylene polyphenyl isocyanate

R-phrases

10	Flammable
20	Harmful by inhalation
36/37/38	Irritating to eyes, respiratory system and skin
40	Limited evidence of a carcinogenic effect
42/43	May cause sensitisation by inhalation and skin contact
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation

S-phrases

(02)	(Keep out of the reach of children)
23	Do not breathe vapour
36/37	Wear suitable protective clothing and gloves
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
(63)	(In case of accident by inhalation: remove casualty to fresh air and keep at rest)

Additional recommendations

	Contains isocyanates. See information supplied by the manufacturer.
	— 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.

15.2 National provisions:

The Netherlands

Waterbezwaarlijkheid (for NL)	1
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 03

Germany

TA-Luft	ethylbenzene: TA-Luft Klasse 5.2.5/II xylene: TA-Luft Klasse 5.2.5/II
WGK	2 Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.3 Specific community rules:

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

<u>Legislation</u>	<u>Reference legislation</u>
EU/276/2010	See 1)
EG/552/2009	See column 1: 40.
EG/552/2009	See column 1: 56.

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

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DSD Dangerous Substance Directive
 DPD Dangerous Preparation Directive
 CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin
R36/37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R42/43	May cause sensitisation by inhalation and skin contact
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation

Full text of any H-statements referred to under headings 2 and 3:

H225	Highly flammable liquid and vapour.
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 if inhaled

Full text of any classes referred to under headings 2 and 3:

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure