

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
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e-mail address: msds@soudal.com

1.4 Emergency telephone:

+32 14 58 45 45 (24/24 h)
Information centre on dangerous goods (BIG)
Technische Schoolstraat 43 A, B-2440 Geel, Belgium

2. Hazards identification

- Flammable
- Harmful by inhalation
- Irritating to eyes, respiratory system and skin
- May cause sensitization by inhalation and skin contact

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
xylene, mixture of isomers	1330-20-7 215-535-7	1 - <12.5	10-20/21-38 (1)	Xn
ethylbenzene	100-41-4 202-849-4	1 - <25	11-20 (1)	F;Xn
polymethylene polyphenyl isocyanate	9016-87-9 -	>25	20-36/37/38-42/43 (1)	Xn

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

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

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4. First aid measures

- 4.1 Eye contact:**
- Rinse immediately with plenty of water
 - Seek medical advice
- 4.2 Skin contact:**
- Rinse immediately with plenty of water
 - If irritation persists: seek medical advice
- 4.3 After inhalation:**
- Remove the victim into fresh air
 - Seek medical advice
- 4.4 After ingestion:**
- Never give water to an unconscious person
 - Do not induce vomiting
 - Seek medical advice

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
 - Polyvalent foam
 - BC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- None
- 5.3 Special exposure hazards:**
- Gas/vapour flammable with air within explosion limits
 - On heating: release of toxic/combustible gases/vapours: hydrogen cyanide
 - On burning: release of toxic and corrosive gases/vapours: nitrous vapours, carbon monoxide and carbon dioxide
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
 - Dilute toxic gases with water spray
 - Take account of environmentally hazardous firefighting water
- 5.5 Special protective equipment for fire-fighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
 - Protective clothing for exposure to chemicals

6. Accidental release measures

- 6.1 Personal precautions:**
- See heading 8.2/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods for cleaning up:**
- Take up liquid spill into absorbent material e.g.: sand/earth
 - Shovel absorbed substance in closing drums
 - Carefully collect the spill/leftovers
 - Take collected spill to manufacturer/competent authority
 - Clean contaminated surfaces with an excess of water
 - Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

- Observe very strict hygiene - avoid contact
- Do not discharge the waste into the drain
- In case of insufficient ventilation:
Use spark-/explosionproof appliances and lighting system
Take precautionary measures against static discharges

7.2 Storage:

- Keep container tightly closed
- Keep away from: heat sources, ignition sources, acids, bases

Storage temperature : Roomtemperature
 Quantity limit : N.D. kg
 Storage life : 365 days
 Materials for packaging :
 - suitable : plastic

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:

XYLENE, mixture of isomers:

TLV-TWA	:	mg/m ³	100	ppm
TLV-STEL	:	mg/m ³	150	ppm
TLV-Ceiling	:	mg/m ³		ppm
WEL-LTEL	: 220	mg/m ³	50	ppm
WEL-STEL	: 441	mg/m ³	100	ppm
TRGS 900	: 440	mg/m ³	100	ppm
MAK	: 440	mg/m ³	100	ppm
MAC-TGG 8 h	: 210	mg/m ³		
MAC-TGG 15 min.	: 442	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	: 221	mg/m ³	50	ppm
VLE-15 min.	: 442	mg/m ³	100	ppm
GWBB-8 h	: 221	mg/m ³	50	ppm
GWK-15 min.	: 442	mg/m ³	100	ppm
Momentary value	:	mg/m ³		ppm
EC	: 221	mg/m ³	50	ppm
EC-STEL	: 442	mg/m ³	100	ppm

POLYMETHYLENE POLYPHENYL ISOCYANATE:

WEL-LTEL	: 0.02 (-NCO)	mg/m ³	-	ppm
WEL-STEL	: 0.07 (-NCO)	mg/m ³	-	ppm
TRGS 900	:	mg/m ³		ppm
MAK	: -	mg/m ³	-	ppm

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ETHYLBENZENE:

TLV-TWA	:		mg/m ³	100	ppm
TLV-STEL	:		mg/m ³	125	ppm
TLV-Ceiling	:		mg/m ³		ppm
WEL-LTEL	:	441	mg/m ³	100	ppm
WEL-STEL	:	552	mg/m ³	125	ppm
TRGS 900	:	440	mg/m ³	100	ppm
MAK	:		mg/m ³		ppm
MAC-TGG 8 h	:	215	mg/m ³		
MAC-TGG 15 min.	:	430	mg/m ³		
MAC-Ceiling	:		mg/m ³		
VME-8 h	:	442	mg/m ³	100	ppm
VLE-15 min.	:	884	mg/m ³	200	ppm
GWBB-8 h	:	442	mg/m ³	100	ppm
GWK-15 min.	:	551	mg/m ³	125	ppm
Momentary value	:		mg/m ³		ppm
EC	:	442	mg/m ³	100	ppm
EC-STEL	:	884	mg/m ³	200	ppm

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:

- Gas mask with filter type A at conc. in air > exposure limit

b) Hand protection:

- Gloves

c) Eye protection:

- Face shield

d) Skin protection:

- Protective clothing

8.2.2 Environmental exposure controls: see heading 6.2, 6.3 and 13

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9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Liquid
Odour	: Solvent
Colour	: Brown

9.2 Important health, safety and environmental information:

pH value (at 20°C)	: N.D.	
Boiling point/boiling range	: N.D.	°C
Flashpoint/flammability	: 35	°C
Explosion limits (explosive properties)	: N.D.	Vol%
Oxidising properties	: N.D.	
Vapour pressure (at 20°C)	: N.D.	hPa
Vapour pressure (at 50°C)	: N.D.	hPa
Relative density (at 20°C)	: 1.1	
Water solubility	: Insoluble	
Soluble in	: Organic solvents	
Relative vapour density	: > 2	
Viscosity (at 20°C)	: N.D.	Pa.s
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: N.D.	°C
Auto-ignition point	: N.D.	°C
Saturation concentration	: N.D.	g/m ³
Specific conductivity	: N.D.	pS/m

10. Stability and reactivity

10.1 Conditions to avoid:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources, acids, bases

10.3 Hazardous decomposition products:

- On heating: release of toxic/combustible gases/vapours: hydrogen cyanide
- On burning: release of toxic and corrosive gases/vapours: nitrous vapours, carbon monoxide and carbon dioxide
- Reacts violently with (some) acids/bases

11. Toxicological information

11.1 Acute toxicity:

XYLENE, mixture of isomers:

LD50 oral rat	: > 3608	mg/kg
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ETHYLBENZENE:

LD50 oral rat	: 3500	mg/kg
LD50 dermal rabbit	: 15415	mg/kg
LC50 inhalation rat	: 17	mg/l/4 h
LC50 inhalation rat	: 4000	ppm/4 h

POLYMETHYLENE POLYPHENYL ISOCYANATE:

LD50 oral rat	: > 10000	mg/kg
LD50 dermal rabbit	: > 5000	mg/kg

11.2 Chronic toxicity:

XYLENE, mixture of isomers:

Carcinogenicity (TLV) : A4
Teratogenicity (MAK) : Group D
IARC classification : 3

ETHYLBENZENE:

Carcinogenicity (TLV) : A3
Carcinogenicity (MAK) : category 3A
Teratogenicity (MAK) : Group -
IARC classification : 2B

POLYMETHYLENE POLYPHENYL ISOCYANATE:

Carcinogenicity (MAK) : category 3B
Teratogenicity (MAK) : Group -
IARC classification : 3

11.3 Routes of exposure: ingestion, inhalation, eye and skin

11.4 Acute effects/symptoms:

After 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

AFTER INGESTION:

AFTER ABSORPTION OF HIGH QUANTITIES:

- CNS depression
- Enlargement/affection of the liver
- Symptoms similar to those listed under inhalation

AFTER SKIN CONTACT:

- Tingling/irritation of the skin

AFTER EYE CONTACT:

- Irritation of the eye tissue

11.5 Chronic effects:

- May cause sensitization by skin contact
- May cause sensitization by inhalation
- Contains substance with uncertain carcinogenic properties
- Contains a substance which (possibly) impairs fertility
- Not listed in mutagenicity class (EC, MAK)

ON CONTINUOUS EXPOSURE/CONTACT:

- Dry skin
- Itching
- Skin rash/inflammation
- Respiratory difficulties

12. Ecological information

12.1 Ecotoxicity:

XYLENE, mixture of isomers:

- LC50 (96 h) : 3.77 mg/l (SALMO GAIARDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 7.4 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 10 mg/l (SKELETONEMA COSTATUM)

ETHYLBENZENE:

- LC50 (96 h) : 4.2 mg/l (SALMO GAIARDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 75 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 4.6 mg/l (SELENASTRUM CAPRICORNUTUM)

- Effect on waste water purification : No data available

12.2 Mobility:

- Volatile organic compounds (VOC): 7%
- Insoluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- Biodegradation BOD₅ : N.D. % ThOD
- Water : No data available
- Soil : T ½ N.D. days

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.

12.5 Results of PBT assessment:

- No data available

12.6 Other adverse effects:

- WGK : 2 (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect : No data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09* (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Incinerate under surveillance
- Do not discharge into drains or the environment

13.3 Packaging:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

UN number	:	1133
CLASS	:	3
SUB RISKS	:	-
PACKING	:	III

14.2 ADR (transport by road)

CLASS	:	3
PACKING	:	III
CLASSIFICATION CODE	:	F1
DANGER LABEL TANKS	:	3
DANGER LABEL PACKAGES	:	3
PROPER SHIPPING NAME	:	

Adhesives, Special provision 640E

14.3 RID (transport by rail)

CLASS	:	3
PACKING	:	III
CLASSIFICATION CODE	:	F1
DANGER LABEL TANKS	:	3
DANGER LABEL PACKAGES	:	3
PROPER SHIPPING NAME	:	

Adhesives, Special provision 640E

14.4 ADNR (inland navigation)

CLASS	:	3
PACKING	:	III
CLASSIFICATION CODE	:	F1
DANGER LABEL TANKS	:	3
DANGER LABEL PACKAGES	:	3

14.5 IMDG (maritime transport)

CLASS	:	3
SUB RISKS	:	-
PACKING	:	III
MFAG	:	-
EMS	:	F-E, S-D
MARINE POLLUTANT	:	-

14.6 ICAO (air freight)

CLASS	:	3
SUB RISKS	:	-
PACKING	:	III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:	309/Y309
PACKING INSTRUCTIONS CARGO AIRCRAFT	:	310

14.7 Special precautions

: Transport in tanks: not applicable

14.8 Limited quantities (LQ)

:

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:

each package shall display a diamond-shaped figure with the following inscription:

- 'UN 1133'

or, in the case of different goods with different identification numbers within a single package:

- the letters 'LQ'

15. Regulatory information

15.1 EU Legislation:

Labelling in accordance with directives 67/548/EEC and 1999/45/EC



Harmful

Contains: polymethylene polyphenyl isocyanate

R10	:	Flammable
R20	:	Harmful by inhalation
R36/37/38	:	Irritating to eyes, respiratory system and skin
R42/43	:	May cause sensitization by inhalation and skin contact

S(02)	:	(Keep out of reach of children)
S23	:	Do not breathe vapour
S24	:	Avoid contact with skin
S37	:	Wear suitable gloves
S45	:	In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S(63)	:	(In case of accident by inhalation: remove casualty to fresh air and keep at rest)

Contains isocyanates. See information supplied by the manufacturer

15.2 National provisions:

the Netherlands:
Waterbezwaarlijkheid: 11

Germany:
WGK : 2 (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

16. Other information

The information provided on this SDS 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, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA
WEL : Workplace Exposure Limits - United Kingdom
TRGS 900 : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
MAC : Maximale aanvaarde concentratie - The Netherlands
VME : Valeurs limites de Moyenne d'Exposition - France
VLE : Valeurs Limites d'Exposition à court terme - France
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium
GWK : Grenswaarde kortstondige blootstelling - Belgium
EC : Indicative occupational exposure limit values - Directive 2000/39/EC

I : Inhalable fraction = T : Total dust = E : Einatembarer Aerosolanteil
R : Respirable fraction = A : Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol	r:	rook/Rauch	(fume)
d:	damp (vapour)	st:	stof/Staub	(dust)
du:	dust	ve:	vezel	(fibre)
fa:	Faser (fibre)	va:	vapour	
fi:	fibre	om:	oil mist	
fu:	fume	on:	olienevel/Ölnebel	(oil mist)
p:	poussière (dust)	part:	particles	

Chronic toxicity:

K: List of the carcinogenic substances and processes - The Netherlands

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 : Irritating to eyes
R36/37/38 : Irritating to eyes, respiratory system and skin
R38 : Irritating to skin
R42/43 : May cause sensitization by inhalation and skin contact