

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Soudal PRO 40 PU Wood adhesive

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

1.1 Product identifier:

Product name : Soudal PRO 40 PU Wood adhesive

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Adhesive

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 П +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 □ +32 14 42 65 14 msds@soudal.com

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements			
Carc.	category 2	H351: Suspected of causing cancer.			
Acute Tox.	categ <mark>ory 4</mark>	H332: Harmful if inhaled.			
STOT RE category 2		H373: May cause damage to organs through prolonged or repeated exposure if inhaled.			
Eye Irrit.	category 2	H319: Causes serious eye irritation.			
STOT SE	categ <mark>ory 3 H335: May cause resp</mark> iratory irritation.				
Skin Irrit.	categ <mark>ory 2</mark>	H315: Causes skin irritation.			
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Skin Sens. category 1		H317: May cause an allergic skin reaction.			

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Carc. Cat. 3; R40 - Limited evidence of a carcinogenic effect

Xn; R20 - 48/20 - Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xi; R36/37/38 - Irritating to eyes, respiratory system and skin. R42/43 - May cause sensitisation by inhalation and skin contact.

2.2 Label elements:

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

Drawn up according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

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Reason for revision: ATP4 Revision number: 0300

Product number: 45246

Publication date: 2007-08-16 Date of revision: 2014-07-02

1/15





Contains: polymethylene polyphenyl isocyanate.

Signal Word	Danger
H-statements	
H351	Suspected of causing car

ncer.

Harmful if inhaled. H332

May cause damage to organs through prolonged or repeated exposure if inhaled. H373

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H315 Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

H317 May cause an allergic skin reaction.

P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves and eye protection/face protection.

P284 Wear respiratory protection. P260 Do not breathe vapours/mist.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of water and soap. P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

- 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.

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels



Contains: polymethylene polyphenyl isocyanate.

R-phrases

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) 45

(In case of accident by inhalation: remove casualty to fresh air and keep at rest) (63)

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.

2.3 Other hazards:

No other hazards known

DSD/DPD

Reason for revision: ATP4 Publication date: 2007-08-16 Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 2/15

No other hazards known

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name REACH Registration No		CAS No EC No	Conc (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
aromatic hydrocarbons, C8 01-2119486136-34		90989-38-1 292-694-9		Xi; R38 R10	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 Skin Irrit. 2; H315	(1)(2)(10)	UVCB
polymethylene polyphenyl isocy	vanate	9016-87-9		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)(10)	Polymer

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

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

After skin contact:

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

After eye contact:

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

After ingestion:

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

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms

After inhalation:

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

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion

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

4.2.2 Delayed symptoms

No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Reason for revision: ATP4	Publication date: 2007-08-16
	Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 3 / 15

⁽²⁾ Substance with a Community workplace exposure limit

⁽¹⁰⁾ Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

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).

5.3 Advice for firefighters:

5.3.1 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 toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain leaking substance. Dam up the liquid spill. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and 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.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Sas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

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

7.2.2 Keep away from:

Heat sources, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

Synthetic material.

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

The Netherlands

[Ime-weighted average exposure limit 8 h 48 ppm Public occupational exposure limit 8 h	yleen (o-,m- en p-isome		e exposure limit 8 h 48 ppr	pm Public occupational exposure limit val	lue
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Reason for revision: ATP4 Publication date: 2007-08-16
Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 4 / 15

V. do an /a an in increase)	Times weighted average symposium limit O.b.	210 / 2	Dulatio a compational composure limit value
Xyleen (o-,m- en p-isomer <mark>en)</mark>	Time-weighted average exposure limit 8 h	210 mg/m ³	Public occupational exposure limit value
	Short time value	100 ppm	Public occupational exposure limit value
	Short time value	442 mg/m ³	Public occupational exposure limit value
EU			
Xylene, mixed isomers, pu <mark>re</mark>	Time-weighted average exposure limit 8 h	50 ppm	Indicative occupational exposure limit value
	Time-weighted average exposure limit 8 h	221 mg/m ³	Indicative occupational exposure limit value
	Short time value	100 ppm	Indicative occupational exposure limit value
	Short time value	442 mg/m³	Indicative occupational exposure limit value
Belgium			
Xylène, isomères mixtes, <mark>purs</mark>	Time-weighted average exposure limit 8 h	50 ppm	
	Time-weighted average exposure limit 8 h	221 mg/m ³	
	Short time value	100 ppm	
	Short time value	442 mg/m ³	
USA (TLV-ACGIH)			
Xylene (all isomers)	Time-weighted average exposure limit 8 h	100 ppm	TLV - Adopted Value
	Short time value	150 ppm	TLV - Adopted Value
Germany			
pMDI (als MDI berechnet)	Time-weighted average exposure limit 8 h	0.05 mg/m ³	TRGS 900
Xylol (alle Isomeren)	Time-weighted average exposure limit 8 h	100 ppm	TRGS 900
	Time-weighted average exposure limit 8 h	440 mg/m ³	TRGS 900
France			
Xylènes, isomères mixtes, purs	Time-weighted average exposure limit 8 h	50 ppm	VRC: Valeur réglementaire contraignant
, .,	Time-weighted average exposure limit 8 h	221 mg/m ³	VRC: Valeur réglementaire contraignant
	Short time value	100 ppm	VRC: Valeur réglementaire contraignant
	Short time value	442 mg/m ³	VRC: Valeur réglementaire contraignant
	priori time value	772 mg/m	vito. Valedi regiernemane contraignant
UK			
Isocyanates, all (as -NCO) Except methyl isocyanate	, i	0.02 mg/m ³	Workplace exposure limit (EH40/2005)
	Short time value	0.07 mg/m ³	Workplace exposure limit (EH40/2005)
Xylene, o-,m-,p- or mixed isomers	Time-weighted average exposure limit 8 h	50 ppm	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	220 mg/m ³	Workplace exposure limit (EH40/2005)
	Short time value	100 ppm	Workplace exposure limit (EH40/2005)
	Short time value	441 mg/m ³	Workplace exposure limit (EH40/2005)
		9	
) National biological limit values			•
o) <u>National biological lim<mark>it values</mark></u> f limit values are applicable and available	e these will be listed below		

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

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

8.1.4 DNEL/PNEC values

DNEL - Workers

aromatic hydrocarbons, C8

Effect level (DNEL/DME	L)	Туре	Value	Remark
DNEL		L <mark>ong-term systemic effec</mark> ts inhalation	77 mg/m ³	
A		Acute systemic effects inhalation	289 mg/m³	
		Long-term local effects inhalation	870 mg/m³	
		L <mark>ong-term systemic effect</mark> s dermal	180 mg/kg bw/day	

DNEL - General population

Reason for revision: ATP4	Publication date: 2007-08-16
	Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 5 / 15

aromatic hydrocarbons, C8

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL Lo		L <mark>ong-term systemic effect</mark> s inhalation	14.8 mg/m³	
A		Acute systemic effects inhalation	174 mg/m ³	
Lo		L <mark>ong-term local effects in</mark> halation	870 mg/m³	
Lo		Long-term systemic effects dermal	108 mg/kg bw/day	
		Long-term systemic effects oral	1.6 mg/kg bw/day	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

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

b) Hand protection:

Gloves.

c) Eye protection:

Face shield.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

	Liquid
	Solvent-like odour
	No data available
	B <mark>rown </mark>
	N <mark>ot applicable</mark> (liquid)
	No data available
	N <mark>on-flammabl</mark> e
	N <mark>ot applicable</mark> (mixture)
	N <mark>o data availa</mark> ble
	N <mark>o data availa</mark> ble
	N <mark>o data availa</mark> ble
	No data available
	Not applicable
	N <mark>o data availa</mark> ble
	> 2
	N <mark>o data availa</mark> ble
	water ; insoluble
	1.1; 20 °C
ture	No data available
	N <mark>o data availa</mark> ble
	No chemical group associated with explosive properties
	No chemical group associated with oxidising properties
	No data available
	ture e

Physical hazards

No physical hazard class

9.2 Other information:

Absolute density 1100 kg/m³; 20 °C

SECTION 10: Stability and reactivity

Reason for revision: ATP4	Publication date: 2007-08-16
	Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 6 / 15

10.1 Reactivity:

Heating increases the fire hazard. No data available.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Reacts violently with (some) acids/bases.

10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

(strong) acids, (strong) bases.

10.6 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 - carbon dioxide).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination
Oral	LD50	Equivalent to OECD 401	3523 mg/kg bw		Rat	Male	Experimental value
Oral	LD50	Equivalent to OECD 401	>4000 mg/kg bw		Rat	Female	Experimental value
Dermal	LD50	Other	<mark>>4200 m</mark> g/kg bw	4 h	Rabbit	Male	Weight of evidence
Inhalation (vapours)	LC50	Equivalent to OECD 403	29 mg/l	4 h	Rat	Male	Experimental value

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination
Oral	LD50		<mark>> 10000</mark> mg/kg		Rat	Literature study
Dermal	LD50		> 5000 mg/kg		Rabbit	Literature study
Inhalation (vapours)	LD50		<mark>10-20 m</mark> g/l	4 h	Rat	Literature study

Classification is based on the relevant ingredients

Conclusion

Harmful if inhaled.

Low acute toxicity by the dermal route

Low acute toxicity by the oral route

Corrosion/irritation

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

Route of expos	ure Result	Method	Exposure time	Time point	Species	Value determination
Eye	Mode <mark>rately</mark> irritat <mark>ing</mark>	Other		72 hours	Rabbit	Weight of evidence
Skin	Irritat <mark>ing</mark>	Other		24; 72 hours	Rabbit	Weight of evidence

polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Irritat <mark>ing</mark>					Literature study
Skin	Irritating					Literature study
Inhalation	Irritat <mark>ing</mark>					Literature study

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Reason for revision: ATP4 Publication date: 2007-08-16
Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 7 / 15

Causes serious eye irritation.

May cause respiratory irritation.

Specific target organ toxicity, single exposure: classified as irritant to respiratory organs

Respiratory or skin sensitisation

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

Route o	of exposure	Result	Method	Exposure t	 Observation time point	Species	Value determination
Skin		Not sensitizing	OECD 429			Mouse	Weight of evidence

polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	 Observation time point	Species	Value determination
Skin	Sensitizing				Literature study
Inhalation	Sensitizing				Literature study

Classification is based on the relevant ingredients

Conclusion

May cause an allergic skin reaction.

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

Specific target organ toxicity

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

Route of exposure	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	 Value determination
Oral	LOAEL		Equivalent to OECD 408	150 mg/kg bw/day	Liver; kidney	Weight gain	90 day(s)	Rat	Experimental value

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	 Value determination
Inhalation			STOT RE cat.2					Literature study

Classification is based on the relevant ingredients

Conclusion

May cause damage to organs through prolonged or repeated exposure if inhaled.

Mutagenicity (in vitro)

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

-					
	Result	Method	Test substrate	Effect	Value determination
	Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)		Experimental value
	Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)		Experimental value

Mutagenicity (in vivo)

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	Equivalent to OECD 473		Rat	Male/female		Experimental value

Carcinogenicity

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

Reason for revision: ATP4	Publication date: 2007-08-16
	Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 8 / 15

aromatic hydrocarbons, C8

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination	Organ	Effect
Oral	NOAEL	Equivalent to	>1000 mg/kg	103 weeks (daily, 5	Mouse	Male/female	Experimental		
		OECD 451	bw/day	days/week)			value		

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	 Value determination	Organ	Effect
Inhalation			category 2		Rat	Literature study		Neoplastic
(aerosol)								effects

Reproductive toxicity

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	. 3.	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	100 ppm		Rat		Fetotoxicity		Experimental value
	NOAEC	Equivalent to OECD 414	>2000 ppm		Rat		Teratogenicit y		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	500 ppm				Maternal toxicity		Experimental value
Effects on fertility	NOAEC (P)	Equivalent to OECD 416	>500		Rat	Male/female	No effect		Experimental value

Classification is based on the relevant ingredients

Conclusion CMR

Suspected of causing cancer.

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

Chronic effects from short and long-term exposure

Soudal PRO 40 PU Wood adhesive
ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Itching. Skin rash/inflammation. Respiratory difficulties.

SECTION 12: Ecological information

12.1 Toxicity:

Soudal PRO 40 PU Wood adhesive

No (test)data on the mixture available

aromatic hydrocarbons, C8

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	2.6 mg/l		Oncorhynchus mykiss	Static system	Fresh water	Read-across
Acute toxicity invertebrates	EC50		3.82 mg/l	48 h	, ,	Flow-through system	Fresh water	Read-across
Toxicity algae and other aq <mark>uatic</mark> plants	ErC50	OECD 201	4.36 mg/l		Pseudokirchneriel la subcapitata	Static system	Fresh water	Read-across; GLP
Long-term toxicity fish	NOEC		> 1.3 mg/l	3 . ,	3	Flow-through system	Fresh water	Experimental value
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	1.57 mg/l	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across; GLP

Reason for revision: ATP4 Publication date: 2007-08-16 Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 9/15

polymethylene polyphenyl isocyanate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity other aquatic organisms	LC50		>1000 mg/l	96 h				Literature study
Toxicity aquatic micro- organisms	EC50	OECD 209	>100 mg/l		Activated sludge			Literature study

Judgement is based on the relevant ingredients of the mixture

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

Not classified as dangerous for the environment according to the criteria of Directive 1999/45/EC

12.2 Persistence and degradability:

aromatic hydrocarbons, C8

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	87.8 %	28 day(s)	Read-across

polymethylene polyphenyl isocyanate

Biodegradation water

Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability:	< 60 %		Experimental value
Modified MITI Test (II)			

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Soudal PRO 40 PU Wood adhesive

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

aromatic hydrocarbons, C8

BCF fishes

BCF 25.9 56 day(s) Oncorhynchus mykiss Similar product	Parameter	Metr	nod	Value	Duration	Species	Value determination
	BCF				56 day(s)	Oncorhynchus mykiss	Similar product

Log Kow

Method	Remark	Value	Temperature	Value determination
Other		3.15	20 °C	Conclusion by analogy

polymethylene polyphenyl isocyanate

BCF fishes

Parameter	Meth	nod	Value	Dur	ation	Species	Value determination
BCF			1			Pisces	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Does not contain bioaccumulative component(s)

12.4 Mobility in soil:

aromatic hydrocarbons, C8

(log) Koc

Parameter	Method	Value	Value determination
log Koc	OECD 121	2.73	Read-across

Conclusion

Contains component(s) with potential for mobility in the soil

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

Soudal PRO 40 PU Wood adhesive

Global warming potential (GWP)

Reason for revision: ATP4 Publication date: 2007-08-16
Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 10 / 15

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

aromatic hydrocarbons, C8

Ground water

Ground water pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Incinerate under surveillance with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

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

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information Road (ADR) 14.1 UN number: Not subject Transport 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Hazard identification number Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Limited quantities Rail (RID) 14.1 UN number: Transport Not subject 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards Environmentally hazardous substance mark no 14.6 Special precautions for user: Special provisions Limited quantities Reason for revision: ATP4 Publication date: 2007-08-16

Revision number: 0300 Product number: 45246 11 / 15

Date of revision: 2014-07-02

Soudal PRO	40 PU Wood adhesive
and waterways (ADN)	
14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping name:	, y
14.3 Transport hazard class(es):	
Class	
Classification code	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	
a (IMDG/IMSBC)	
14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping name:	
14.3 Transport hazard class <mark>(es):</mark>	
Class	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	
14.7 Transport in bulk according to Annex II of MARPOL 73/78	and the IBC Code:
Annex II of MARPOL 73/78	Not applicable, based on available data
(ICAO TI (IATA DCD)	
r (ICAO-TI/IATA-DGR) 14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping name:	I vot subject
14.3 Transport hazard class(es):	
Class	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	110
Special provisions	
Passenger and cargo transport: limited quantities: maximum per packaging	m net quantity
pei packaying	
ION 15: Regulatory information	
.1 Safety, health and <mark>environmental regulations/</mark>	legislation specific for the substance or mixture:
European legislation:	
VOC content Directive 2010/75/EU	
VOC content	remarks
7 %	
VOC content Directive 2004/42/EC	
77 g/l	
n for revision: ATP4	Publication date: 2007-08-16
	Date of revision: 2014-07-02
n number: 0300	Product number: 45246

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of 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.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
#500345# polymethylene polyphenyl isocyanate	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the crite for any of the following hazard classes or categories set out in Annex I to Regulation (EC No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories and 2, 2.14 categories 1 and 2, 2.15 types A to F;	ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required 1 for fiscal reasons, or perfume, or both, if they:
#500345#	Substances classified as flammable gases category 1 or 2, flammable liquids categories 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact wit water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulatio or not.	purposes such as the following: th — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols,
	Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate	1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging: (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EE; (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures: "— 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 2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.
Reference legislation		

See column 1: 3.
See column 1: 40.
See column 1: 56.

Recommandations REACH annex XVII

- Persons alrea<mark>dy sensitised to diisocyanates may dev</mark>elop allergic reactions when using this product.

Reason for revision: ATP4 Publication date: 2007-08-16
Date of revision: 2014-07-02

 Revision number: 0300
 Product number: 45246
 13 / 15

National legislation The Netherlands

Soudal	PRO 4	0 PU V	Nood adhe	sive
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Waste identification (the	LWCA (the Netherlands): KGA category 03
Netherlands)	
Waterbezwaarlijkheid	1

aromatic hydrocarbons, C8	
SZW - List of carcinogenic	Listed in SZW-list of carcinogenic substances
substances	
SZW - List of mutagenic	Listed in SZW-list of mutagenic substances
substances	
SZW - List of reprotoxic	Possibly hazardous to the foetus
substances (development)	

National legislation Germany

Soudal PRO 40 PU Wood adhesive

WGK	1: Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender
	Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

aromatic hydrocarbons, C8

TA-Luft		TA-Luft Klasse 5.2.5/I		
Schwangerschaft Gru	ppe	D		
MAK 8-Stunden-Mitte	elwert	Xylol (alle Isomeren); 100 ppm		
ppm				
MAK 8-Stunden-Mitte	elwert	Xylol (alle Isomeren); 440 mg/m	n^3	
mg/m³				

polymethylene polyphenyl isocyanate

TRGS905 - Krebserzeugend	3					
TRGS905 - Erbgutverändernd	-					
TRGS905 - Fruchtbarkeitsgefährd <mark>end</mark>	-					
TRGS905 - Fruchtschädigend	-					
MAK - Krebserzeugend Kategorie	4					
Schwangerschaft Gruppe	С					
MAK 8-Stunden-Mitte <mark>lwert</mark> mg/m ³	"polymeres MDI" (einatemba	re Fraktion); 0.05	mg/m³; gemessen als eir	natembare I	Fraktion (vgl. Absch	ın. Vd) S. 191)

National legislation France

Soudal PRO 40 PU Wood adhesive

No data available

National legislation Belgium

Soudal PRO 40 PU Wood adhesive

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

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

R10 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

R65 Harmful: may cause lung damage if swallowed

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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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.

Reason for revision: ATP4 Publication date: 2007-08-16 Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 14 / 15

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

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 and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.



Reason for revision: ATP4 Publication date: 2007-08-16
Date of revision: 2014-07-02

Revision number: 0300 Product number: 45246 15 / 15