

## Soudal Sealant Remover Aerosol

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

#### 1.1 Product identifier:

Product name : Soudal Sealant Remover Aerosol  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

##### 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  
☎ +32 14 42 42 31  
+32 14 42 65 14  
msds@soudal.com

##### Manufacturer of the product

Soudal N.V.  
Everdongenlaan 18-20  
B-2300 Turnhout  
☎ +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
Aerosol	category 1	H222: Extremely flammable aerosol.
Aerosol	category 1	H229: Pressurised container: May burst if heated.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Dam.	category 1	H318: Causes serious eye damage.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.

##### 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

F+; R12 - Extremely flammable.

Xi; R38 - Irritating to skin.

R43 - May cause sensitisation by skin contact.

N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements:

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

# Soudal Sealant Remover Aerosol



Contains: (R)-p-mentha-1,8-diene; alcohols, C9-11, ethoxylated.

**Signal word** Danger

## H-statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

## P-statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P310 Immediately call a POISON CENTER/doctor.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

## Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

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

### Labels



Extremely flammable



Irritant



Dangerous for the environment

Contains: (R)-p-mentha-1,8-diene.

## R-phrases

38 Irritating to skin  
43 May cause sensitisation by skin contact  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## S-phrases

02 Keep out of the reach of children  
16 Keep away from sources of ignition - No smoking  
23 Do not breathe spray  
24 Avoid contact with skin  
37 Wear suitable gloves  
51 Use only in well-ventilated areas  
60 This material and its container must be disposed of as hazardous waste  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

## Additional recommendations

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.  
Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.

## 2.3 Other hazards:

### CLP

May be ignited by sparks  
Gas/vapour spreads at floor level: ignition hazard  
Aerosol may explode under the effect of heat

### DSD/DPD

May be ignited by sparks  
Gas/vapour spreads at floor level: ignition hazard  
Aerosol may explode under the effect of heat

## SECTION 3: Composition/information on ingredients

Reason for revision: ATP4

Publication date: 2008-06-26

Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

2 / 15

# Soudal Sealant Remover Aerosol

## 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
(R)-p-mentha-1,8-diene 01-2119529223-47	5989-27-5 227-813-5	C>25 %	Xn; R65 Xi; R38 R10 R43 N; R50-53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(6)(10)	Mono-constituent
alcohols, C9-11, ethoxylated		2.5%<C<10%	Xi; R41	Eye Dam. 1; H318	(1)(10)	UVCB
propane 01-2119486944-21	74-98-6 200-827-9	C<10 %	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
butane 01-2119474691-32	106-97-8 203-448-7	10%<C<25%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

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

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General:

If you feel unwell, seek medical advice.

#### After inhalation:

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

#### After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

#### 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:

Headache. Dizziness. Disturbances of consciousness.

##### After skin contact:

Red skin. Tingling/irritation of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Skin rash/inflammation.

##### After eye contact:

Inflammation/damage of the eye tissue. Corrosion of the eye tissue.

##### After ingestion:

Nausea. Vomiting.

#### 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:

#### 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:

Upon combustion CO and CO<sub>2</sub> are formed (carbon monoxide - carbon dioxide).

### 5.3 Advice for firefighters:

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Product number: 46405

3 / 15

# Soudal Sealant Remover Aerosol

## 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

## 5.3.2 Special protective equipment for fire-fighters:

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2 Environmental precautions:

Dam up the liquid spill. Use appropriate containment to avoid environmental contamination.

### 6.3 Methods and material for containment and cleaning up:

Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with a soap solution. 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:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### 7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Ventilation at floor level. Protect against frost. Fireproof storeroom. Meet the legal requirements. Max. storage time: 1 year(s).

#### 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, peroxides.

#### 7.2.3 Suitable packaging material:

Aerosol.

#### 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

n-Butaan	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	592 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	1430 mg/m <sup>3</sup>

#### Belgium

Essence de térébenthine et monoterpènes sélectionnés	Time-weighted average exposure limit 8 h	20 ppm
Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4)	Time-weighted average exposure limit 8 h	1000 ppm

#### USA (TLV-ACGIH)

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Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

4 / 15

# Soudal Sealant Remover Aerosol

Butane, all isomers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1000 ppm
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## Germany

(R)-p-Mentha-1,8-dien (D-Limonen)	Time-weighted average exposure limit 8 h (TRGS 900)	5 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	28 mg/m <sup>3</sup>
Butan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m <sup>3</sup>
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m <sup>3</sup>

## France

n-Butane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	800 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1900 mg/m <sup>3</sup>

## UK

Butane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1450 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	750 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1810 mg/m <sup>3</sup>

### b) National biological limit values

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

### 8.1.2 Sampling methods

If applicable and available it will be listed below.

d-Limonene (Volatile Organic compounds)	NIOSH	2549
Limonene	NIOSH	1552

### 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

(R)-p-mentha-1,8-diene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	33.3 mg/m <sup>3</sup>	
	Acute local effects dermal	222 µg/cm <sup>2</sup>	

alcohols, C9-11, ethoxylated

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	17.6 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	35.2 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	17.5 mg/kg bw/day	
	Acute systemic effects dermal	17.5 mg/kg bw/day	
	Long-term local effects dermal	2.02 mg/cm <sup>2</sup>	
	Acute local effects dermal	2.02 mg/cm <sup>2</sup>	

#### DNEL - General population

(R)-p-mentha-1,8-diene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	8.33 mg/m <sup>3</sup>	
	Acute local effects dermal	111 µg/cm <sup>2</sup>	
	Long-term systemic effects oral	4.76 mg/kg bw/day	

alcohols, C9-11, ethoxylated

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.4 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	8.8 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	12.5 mg/kg bw/day	
	Acute systemic effects dermal	12.5 mg/kg bw/day	
	Long-term local effects dermal	1.1 mg/cm <sup>2</sup>	
	Acute local effects dermal	1.1 mg/cm <sup>2</sup>	
	Long-term systemic effects oral	1.25 mg/kg bw/day	
	Acute systemic effects oral	1.25 mg/kg bw/day	

#### PNEC

Reason for revision: ATP4

Publication date: 2008-06-26

Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

5 / 15

# Soudal Sealant Remover Aerosol

## (R)-p-mentha-1,8-diene

Compartments	Value	Remark
Fresh water	5.4 µg/l	
Marine water	0.54 µg/l	
STP	1.8 mg/l	
Fresh water sediment	1.32 mg/kg sediment dw	
Marine water sediment	0.13 mg/kg sediment dw	
Soil	0.262 mg/kg soil dw	
Oral	3.33 mg/kg food	

## alcohols, C9-11, ethoxylated

Compartments	Value	Remark
Fresh water	0.5 mg/l	
Marine water	0.05 mg/l	
Aqua (intermittent releases)	5 mg/l	
STP	5500 mg/l	
Fresh water sediment	1.85 mg/kg sediment dw	
Soil	0.0764 mg/kg soil dw	

### 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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. 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.

- materials (good resistance)

Nitrile rubber.

##### c) Eye protection:

Safety glasses.

##### 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:

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	Colourless
Particle size	No data available
Explosion limits	1.8 - 9.5 vol %
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	140 °C
Flash point	Not applicable
Evaporation rate	0.2 ; butyl acetate
Relative vapour density	No data available
Vapour pressure	8530 hPa ; 20 °C
Solubility	water ; insoluble
Relative density	0.9 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	365 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

### 9.2 Other information:

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# Soudal Sealant Remover Aerosol

Extrapolated kinematic viscosity	No data available
Absolute density	900 kg/m <sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

No data available.

### 10.4 Conditions to avoid:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

### 10.5 Incompatible materials:

Oxidizing agents, (strong) acids, peroxides.

### 10.6 Hazardous decomposition products:

Upon combustion CO and CO<sub>2</sub> are formed (carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

##### Soudal Sealant Remover Aerosol

No (test) data on the mixture available

##### (R)-p-mentha-1,8-diene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (female)	Read-across	
Dermal	LD50	Equivalent to OECD 402	>5000 mg/kg bw	24 h	Rabbit	Inconclusive, insufficient data	
Inhalation						Data waiving	

##### alcohols, C9-11, ethoxylated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	5130 mg/kg bw		Rat (female)	Weight of evidence	
Oral	LD50	OECD 401	>5050 mg/kg bw		Rat (male)	Weight of evidence	
Dermal		Equivalent to OECD 402	>2000 mg/kg bw	24 h	Rat (male/female)	Weight of evidence	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	>1.6 mg/l	4 h	Rat (male/female)	Weight of evidence	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### Soudal Sealant Remover Aerosol

No (test) data on the mixture available

##### (R)-p-mentha-1,8-diene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Irritating; category 2					Annex VI	

##### alcohols, C9-11, ethoxylated

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405			Rabbit	Read-across	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Weight of evidence	

Classification of the mixture is based on the relevant ingredients of the mixture

#### Conclusion

Causes skin irritation.

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Revision number: 0400

Product number: 46405

7 / 15

# Soudal Sealant Remover Aerosol

Causes serious eye damage.  
Not classified as irritating to the respiratory system

## Respiratory or skin sensitisation

### Soudal Sealant Remover Aerosol

No (test)data on the mixture available

#### (R)-p-mentha-1,8-diene

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 429			Mouse (female)	Experimental value	

#### alcohols, C9-11, ethoxylated

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (male/female)	Read-across	

Classification is based on the relevant ingredients

### Conclusion

May cause an allergic skin reaction.  
Not classified as sensitizing for inhalation

## Specific target organ toxicity

### Soudal Sealant Remover Aerosol

No (test)data on the mixture available

#### (R)-p-mentha-1,8-diene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	Equivalent to OECD 408	600 mg/kg bw/day		No effect	13 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value
Oral	LOAEL	Equivalent to OECD 408	1200 mg/kg bw/day		Systemic toxicity	13 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value
Oral (stomach tube)	NOAEL	Equivalent to OECD 407	1650 mg/kg bw/day		No effect	2 weeks (daily, 5 days/week)	Mouse (male/female)	Experimental value
Oral (stomach tube)	LOAEL	Equivalent to OECD 407	3300 mg/kg bw/day		Mortality	2 weeks (daily, 5 days/week)	Mouse (male/female)	Experimental value

#### alcohols, C9-11, ethoxylated

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	Equivalent to OECD 408	>=500 mg/kg bw/day	General	No adverse systemic effects	90 day(s)	Rat (male/female)	Read-across

Judgement is based on the relevant ingredients

### Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### Soudal Sealant Remover Aerosol

No (test)data on the mixture available

#### (R)-p-mentha-1,8-diene

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

#### alcohols, C9-11, ethoxylated

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 476	Chinese hamster ovary (CHO)	No effect	Read-across
Negative	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Read-across
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Weight of evidence

## Mutagenicity (in vivo)

### Soudal Sealant Remover Aerosol

No (test)data on the mixture available

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Product number: 46405

8 / 15

# Soudal Sealant Remover Aerosol

(R)-p-mentha-1,8-diene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative			Rat (male)	Kidney	Experimental value

## Carcinogenicity

Soudal Sealant Remover Aerosol

No (test) data on the mixture available

(R)-p-mentha-1,8-diene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Oral	NOAEL	Equivalent to OECD 451	250-500 mg/kg bw/day	103 week(s)	Mouse (male)	Experimental value		No carcinogenic effect
Oral	NOAEL	Equivalent to OECD 451	500-1000 mg/kg bw/day	103 week(s)	Mouse (female)	Experimental value		No carcinogenic effect

alcohols, C9-11, ethoxylated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation						Data waiving		
Dermal						Data waiving		
Oral						Data waiving		

## Reproductive toxicity

Soudal Sealant Remover Aerosol

No (test) data on the mixture available

(R)-p-mentha-1,8-diene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL		591 mg/kg bw/day	7 day(s)	Rat	No effect	Foetus	Inconclusive, insufficient data
	NOAEL		>1000 mg/kg bw/day	13 day(s)	Rabbit	No effect	Foetus	Inconclusive, insufficient data
	NOAEL		591 mg/kg bw/day	6 day(s)	Mouse	No effect	Foetus	Inconclusive, insufficient data
Maternal toxicity	NOAEL		591 mg/kg bw/day	7 day(s)	Rat	No effect		Inconclusive, insufficient data
	NOAEL		250 mg/kg bw/day	13 day(s)	Rabbit	No effect		Inconclusive, insufficient data
	NOAEL		591 mg/kg bw/day	6 day(s)	Mouse	No effect		Inconclusive, insufficient data
Effects on fertility								Data waiving

alcohols, C9-11, ethoxylated

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 416	>=250 mg/kg bw/day		Rat	No effect		Experimental value
Maternal toxicity	NOAEL	Other	>=250 mg/kg bw/day		Rat (female)	No effect		Experimental value
	NOEL	Other	100 mg/kg bw/day		Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	>=250 mg/kg bw/day		Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

Soudal Sealant Remover Aerosol

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature study

## Chronic effects from short and long-term exposure

Soudal Sealant Remover Aerosol

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

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9 / 15

# Soudal Sealant Remover Aerosol

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Soudal Sealant Remover Aerosol

No (test)data on the mixture available

#### (R)-p-mentha-1,8-diene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	720 µg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity invertebrates	EC50	OECD 202	0.36 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	150 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across: GLP
Long-term toxicity aquatic invertebrates	NOEC		0.115 mg/l	16 day(s)	Daphnia sp.		Fresh water	QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	209 mg/l	3 h	Bacteria	Static system	Fresh water	Read-across

#### alcohols, C9-11, ethoxylated

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		5.7 mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50		2.5 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50		1.4 mg/l	96 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value
	EC20		1.978 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity fish	NOEC		0.28 mg/l	30 day(s)	Pimephales promelas	Flow-through system	Fresh water	Read-across
Long-term toxicity aquatic invertebrates	NOEC	US EPA	0.77 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Read-across
Toxicity aquatic micro-organisms	EC50		140 mg/l	3 h	Activated sludge	Static system	Fresh water	Read-across

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	OECD 207	>1000 mg/kg soil dw	14 day(s)	Eisenia foetida	Read-across

Classification is based on the relevant ingredients

#### Conclusion

Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

#### (R)-p-mentha-1,8-diene

##### Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	80 %; GLP	28 day(s)	Read-across

#### alcohols, C9-11, ethoxylated

##### Biodegradation water

Method	Value	Duration	Value determination
ISO 14593	72 - 89 %	28 day(s)	Read-across

#### Conclusion

Contains readily biodegradable component(s)

### 12.3 Bioaccumulative potential:

#### Soudal Sealant Remover Aerosol

##### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

#### (R)-p-mentha-1,8-diene

##### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		864.8 - 1022		Pisces	QSAR

##### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		4.38	37 °C	Experimental value

Reason for revision: ATP4

Publication date: 2008-06-26

Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

10 / 15

# Soudal Sealant Remover Aerosol

alcohols, C9-11, ethoxylated

## BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		12.7 - 237	24 h	Pimephales promelas	Read-across

## Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		3.42		QSAR

## Conclusion

Contains bioaccumulative component(s)

## 12.4 Mobility in soil:

(R)-p-mentha-1,8-diene

### (log) Koc

Parameter	Method	Value	Value determination
Koc	SRC PCKOCWIN v2.0	1120 - 6324	QSAR

alcohols, C9-11, ethoxylated

### (log) Koc

Parameter	Method	Value	Value determination
log Koc		1.608 - 2.881	QSAR

## Conclusion

Contains component(s) that adsorb(s) into the soil

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 Sealant Remover Aerosol

### Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

### Ozone-depleting potential (ODP)

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

(R)-p-mentha-1,8-diene

### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

alcohols, C9-11, ethoxylated

### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

## 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).

16 05 04\* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing dangerous substances).

20 01 29\* (separately collected fractions (except 15 01): detergents containing 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

Refer to manufacturer/supplier for information on recovery/ recycling. 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. Specific treatment. 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:

UN number	1950
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Reason for revision: ATP4

Publication date: 2008-06-26

Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

11 / 15

# Soudal Sealant Remover Aerosol

14.2 UN proper shipping name:	Proper shipping name	Aerosols
14.3 Transport hazard class(es):	Hazard identification number	
	Class	2
	Classification code	5F
14.4 Packing group:	Packing group	
	Labels	2.1
14.5 Environmental hazards:	Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	Special provisions	190
	Special provisions	327
	Special provisions	344
	Special provisions	625
	Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Rail (RID)

14.1 UN number:	UN number	1950
14.2 UN proper shipping name:	Proper shipping name	Aerosols
14.3 Transport hazard class(es):	Hazard identification number	23
	Class	2
	Classification code	5F
14.4 Packing group:	Packing group	
	Labels	2.1
14.5 Environmental hazards:	Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	Special provisions	190
	Special provisions	327
	Special provisions	344
	Special provisions	625
	Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

14.1 UN number:	UN number	1950
14.2 UN proper shipping name:	Proper shipping name	Aerosols
14.3 Transport hazard class(es):	Class	2
	Classification code	5F
14.4 Packing group:	Packing group	
	Labels	2.1
14.5 Environmental hazards:	Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	Special provisions	190
	Special provisions	327
	Special provisions	344
	Special provisions	625
	Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

14.1 UN number:	UN number	1950
14.2 UN proper shipping name:	Proper shipping name	Aerosols
14.3 Transport hazard class(es):	Class	2.1

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# Soudal Sealant Remover Aerosol

## 14.4 Packing group:

Packing group	
Labels	2.1

## 14.5 Environmental hazards:

Marine pollutant	P
Environmentally hazardous substance mark	yes

## 14.6 Special precautions for user:

Special provisions	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	959
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## 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
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## Air (ICAO-TI/IATA-DGR)

### 14.1 UN number:

UN number	1950
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### 14.2 UN proper shipping name:

Proper shipping name	Aerosols, flammable
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### 14.3 Transport hazard class(es):

Class	2.1
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## 14.4 Packing group:

Packing group	
Labels	2.1

## 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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## 14.6 Special precautions for user:

Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
96.25 %	

VOC content Directive 2004/42/EC

772.4 g/l			
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Plant protection products - listed ingredient

Contains component(s) included in implementing Regulation (EU) No 540/2011

Ingredients according to Regulation (EC) No 648/2004 and amendments

15-30% aliphatic hydrocarbons, <5% non-ionic surfactants, limonene

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
(R)-p-mentha-1,8-diene alcohols, C9-11, ethoxylated	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria 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 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with 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 for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304. 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of

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Publication date: 2008-06-26

Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

13 / 15

# Soudal Sealant Remover Aerosol

	effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life-threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
(R)-p-mentha-1,8-diene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with 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 Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopie" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

## National legislation The Netherlands

### Soudal Sealant Remover Aerosol

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	4

## National legislation Germany

### Soudal Sealant Remover Aerosol

WGK	2: Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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### (R)-p-mentha-1,8-diene

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	D-Limonen: 5 ppm
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	D-Limonen: 28 mg/m <sup>3</sup>
TA-Luft	5.2.5; I

### alcohols, C9-11, ethoxylated

TA-Luft	5.2.5; I
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## National legislation France

### Soudal Sealant Remover Aerosol

No data available

## National legislation Belgium

### Soudal Sealant Remover Aerosol

No data available

## Other relevant data

### Soudal Sealant Remover Aerosol

No data available

### (R)-p-mentha-1,8-diene

IARC - classification	3: D-limonene
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## 15.2 Chemical safety assessment:

No chemical safety assessment is required.

Reason for revision: ATP4

Publication date: 2008-06-26

Date of revision: 2015-01-08

Revision number: 0400

Product number: 46405

14 / 15

# Soudal Sealant Remover Aerosol

## SECTION 16: Other information

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

- R10 Flammable
- R38 Irritating to skin
- R41 Risk of serious damage to eyes
- R43 May cause sensitisation by skin contact
- R50 Very toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed

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

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H226 Flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

(\*) = 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)

### M-factor

(R)-p-mentha-1,8-diene	1	Acute	BIG
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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: 2008-06-26

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15 / 15