

## Soudal Surface Activator

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

#### 1.1 Product identifier:

**Product name** : Soudal Surface Activator  
**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  
 Degreasing agent  
 Cleansing agent

##### 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

SODAL 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

SODAL 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.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.

##### 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; R36 - Irritating to eyes.

R67 - Vapours may cause drowsiness and dizziness.

#### 2.2 Label elements:

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

# Soudal Surface Activator



**Signal word**

Danger

**H-statements**

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**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.
- P280 Wear eye protection
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
- P501 Dispose of contents/container to manufacturer/competent authority.

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

**Labels**



Extremely flammable



Irritant

**R-phrases**

- 36 Irritating to eyes
- 67 Vapours may cause drowsiness and dizziness

**S-phrases**

- 02 Keep out of the reach of children
- 16 Keep away from sources of ignition - No smoking
- 23 Do not breathe spray
- 51 Use only in well-ventilated areas

**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

**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

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

# Soudal Surface Activator

titanium tetraisopropanolate 01-2119967389-17	546-68-9 208-909-6	1%<C<15%	Xi; R36 R10 R67	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(10)	Constituent
propan-2-ol 01-2119457558-25	67-63-0 200-661-7	5%<C<15%	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
propane 01-2119486944-21	74-98-6 200-827-9	1%<C<30%	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	C>25%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%)						

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

(2) Substance with a Community workplace exposure limit

(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:

Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. 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. 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:

EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

##### After skin contact:

Red skin.

##### After eye contact:

Irritation of the eye tissue. Visual disturbances. Redness of the eye tissue.

##### After ingestion:

Not applicable.

#### 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. 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.

### 5.3 Advice for firefighters:

#### 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.

#### 5.3.2 Special protective equipment for fire-fighters:

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

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

3 / 16

# Soudal Surface Activator

## 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 goggles. 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 absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. 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. Observe normal hygiene standards. Remove contaminated clothing immediately.

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

#### 7.2.1 Safe storage requirements:

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

#### 7.2.2 Keep away from:

Heat sources, ignition sources.

#### 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

2-Propanol	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	260 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	650 mg/m <sup>3</sup>
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

Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m <sup>3</sup>
	Short time value	400 ppm
	Short time value	1000 mg/m <sup>3</sup>

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

4 / 16

# Soudal Surface Activator

Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4)	Time-weighted average exposure limit 8 h	1000 ppm
---	--	----------

## USA (TLV-ACGIH)

2-propanol	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
	Short time value (TLV - Adopted Value)	400 ppm
Butane, all isomers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1000 ppm

## Germany

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>
Propan-2-ol	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	500 mg/m <sup>3</sup>

## France

Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m <sup>3</sup>
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>
Propan-2-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	999 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1250 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.

Isopropanol (Volatile Organic compounds)	NIOSH	2549
Isopropyl Alcohol (Alcohols I)	NIOSH	1400
Isopropyl Alcohol	OSHA	109

#### 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

##### titanium tetraisopropanolate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	500 mg/m <sup>3</sup>	

##### propan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects dermal	888 mg/kg bw/day	
	Long-term systemic effects inhalation	500 mg/m <sup>3</sup>	

##### DNEL - General population

##### propan-2-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects dermal	319 mg/kg bw/day	
	Long-term systemic effects inhalation	89 mg/m <sup>3</sup>	
	Long-term systemic effects oral	26 mg/kg bw/day	

##### PNEC

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

5 / 16

# Soudal Surface Activator

## titanium tetraisopropanolate

Compartments	Value	Remark
Fresh water	0.59 mg/l	
Salt water	0.059 mg/l	
Aqua (intermittent releases)	5.9 mg/l	
STP	105 mg/l	
Fresh water sediment	0.482 mg/kg sediment dw	
Marine water sediment	0.0482 mg/kg sediment dw	
Soil	0.112 mg/kg soil dw	

## propan-2-ol

Compartments	Value	Remark
Fresh water	140.9 mg/l	
Marine water	140.9 mg/l	
Aqua (intermittent releases)	140.9 mg/l	
STP	2251 mg/l	
Fresh water sediment	552 mg/kg sediment dw	
Marine water sediment	552 mg/kg sediment dw	
Soil	28 mg/kg soil dw	
Oral	160 mg/kg food	

### 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 normal hygiene standards. 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	Breakthrough time	Thickness
nitrile rubber	>480 minutes	0.35 mm

#### c) Eye protection:

Protective goggles.

#### d) Skin protection:

Head/neck 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	Variable in colour, depending on the composition
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	0°C
Boiling point	-140°C
Flash point	No data available
Evaporation rate	1.3 ; butyl acetate
Relative vapour density	No data available
Vapour pressure	8530hPa ; 20°C

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

6 / 16

# Soudal Surface Activator

Solubility	water ; insoluble
Relative density	0.80 ; 20°C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
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:

Absolute density	800kg/m <sup>3</sup> ; 20°C
------------------	-----------------------------

## 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:

Unstable on exposure to heat.

### 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:

No data available.

### 10.6 Hazardous decomposition products:

Upon combustion: CO and CO<sub>2</sub> are formed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

##### Soudal Surface Activator

No (test)data on the mixture available

##### titanium tetraisopropanolate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	7500mg/kg bw		Rat (male)	Weight of evidence	
Dermal	LD50		12870mg/kg bw		Rabbit	Read-across	
Inhalation (aerosol)	LC50		7780mg/m <sup>3</sup> air	4 h	Rat (male)	Weight of evidence	

##### propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	5840mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	16.4ml/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000ppm	6 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### Soudal Surface Activator

No (test)data on the mixture available

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

7 / 16

# Soudal Surface Activator

## titanium tetraisopropanolate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Moderately irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Skin	Not irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Weight of evidence	

## propan-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Highly irritating	OECD 405			Rabbit	Experimental value	Single treatment
Skin	Not irritating		4 h		Human	Experimental value	
Skin	Not irritating		4 h		Rabbit	Experimental value	

Classification is based on the relevant ingredients

### Conclusion

- Causes serious eye irritation.
- Not classified as irritating to the skin
- Not classified as irritating to the respiratory system

### Respiratory or skin sensitisation

#### Soudal Surface Activator

No (test) data on the mixture available

## titanium tetraisopropanolate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value	

## propan-2-ol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	3 weeks (6h/day, 1 day/week)	24; 48 hours	Guinea pig (male/female)	Experimental value	

Judgement is based on the relevant ingredients

### Conclusion

- Not classified as sensitizing for skin
- Not classified as sensitizing for inhalation

### Specific target organ toxicity

#### Soudal Surface Activator

No (test) data on the mixture available

## titanium tetraisopropanolate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL		2200mg/kg bw/day		No effect	2 weeks (5 days/week)	Rat (male)	Inconclusive, insufficient data
Inhalation (vapours)	Dose level	EPA TSCA consent order	5000ppm	Central nervous system	Central nervous system depression	6 h	Rat (male/female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5000ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5000ppm		No effect	13 weeks (6h/day, 5 days/week)	Mouse (male/female)	Read-across

## propan-2-ol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (vapours)	NOAEC	OECD 451	5000ppm	General	No effect	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	Dose level	OECD 403	5000ppm	Central nervous system	Drowsiness, dizziness	6 h	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEL	OECD 413	5000ppm			13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Classification is based on the relevant ingredients

### Conclusion

- May cause drowsiness or dizziness.
- Not classified for subchronic toxicity

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01



# Soudal Surface Activator

## Mutagenicity (in vitro)

### Soudal Surface Activator

No (test) data on the mixture available

#### titanium tetraisopropanolate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Weight of evidence

#### propan-2-ol

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value

## Mutagenicity (in vivo)

### Soudal Surface Activator

No (test) data on the mixture available

#### titanium tetraisopropanolate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	EPA OTS 798.5395		Mouse (male/female)		Read-across

#### propan-2-ol

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)		Experimental value

## Carcinogenicity

### Soudal Surface Activator

No (test) data on the mixture available

#### titanium tetraisopropanolate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (vapours)	NOEL	Equivalent to OECD 451	> 5000ppm	78 weeks (6h/day, 5 days/week)	Mouse (male/female)	Read-across		No effect
Inhalation (vapours)	NOEL	Equivalent to OECD 451	> 5000ppm	104 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across		No effect

#### propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (vapours)	NOEL	Equivalent to OECD 451	5000ppm	104 weeks (6h/day, 5 days/week)	Mouse (male/female)	Experimental value		No carcinogenic effect

## Reproductive toxicity

### Soudal Surface Activator

No (test) data on the mixture available

#### titanium tetraisopropanolate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OTS 798.4900	400mg/kg bw/day	10 days (gestation, daily)	Rat (male/female)	No effect		Read-across
	NOAEL	EPA OTS 798.4900	480mg/kg bw/day	13 days (gestation, daily)	Rabbit (male/female)	No effect		Read-across
Maternal toxicity	NOAEL		400mg/kg bw/day	10 days (gestation, daily)	Rat (female)	No effect		Read-across
	NOAEL		240mg/kg bw/day	13 days (gestation, daily)	Rabbit (female)	No effect		Read-across

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

# Soudal Surface Activator

## propan-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	596mg/kg bw/day	1 month(s)	Rat	No effect	Foetus	Experimental value
						No effect	Foetus	
						No effect	Thymus	
Maternal toxicity	NOAEL	Equivalent to OECD 414	596mg/kg bw/day	1 month(s)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 415	853mg/kg bw/day	21-70 day(s)	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 Surface Activator

No (test)data on the mixture available

### Chronic effects from short and long-term exposure

#### Soudal Surface Activator

No effects known.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Soudal Surface Activator

No (test)data on the mixture available

#### titanium tetraisopropanolate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		4200mg/l	96 h	Rasbora heteromorpha	Static system	Fresh water	Read-across
Acute toxicity invertebrates	EC50	OECD 202	590mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 202	440mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	> 820mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
	EC50	OECD 201	400mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
	NOEC	OECD 201	201mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
	LOEC	OECD 201	97mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
Toxicity aquatic micro-organisms	Toxicity threshold	DIN 38412-8	1050mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Read-across

## propan-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	9640mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity invertebrates	EC50	Other	13299mg/l	48 h	Daphnia magna			Experimental value
	LC50	Equivalent to OECD 202	> 10000mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50	UBA	> 1000mg/l	72 h	Scenedesmus subspicatus			Experimental value; Growth rate
Long-term toxicity aquatic invertebrates	EC0		141mg/l	384 h	Daphnia magna			
Toxicity aquatic micro-organisms	EC50	ISO 8192	41676mg/l	30 minutes	Bacteria			Experimental value; Activated sludge

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

# Soudal Surface Activator

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

## 12.2 Persistence and degradability:

titanium tetraisopropanolate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C: Modified MITI Test (I)	84% - 89%	28 day(s)	Experimental value

### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
			Calculated value

### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
OECD 111: Hydrolysis as a function of pH	< 3minutes; GLP		Experimental value

propan-2-ol

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	95%	21 day(s)	Experimental value

## Conclusion

Readily biodegradable in water

## 12.3 Bioaccumulative potential:

Soudal Surface Activator

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

titanium tetraisopropanolate

### Log Kow

Method	Remark	Value	Temperature	Value determination
		1.03		Calculated

propan-2-ol

### Log Kow

Method	Remark	Value	Temperature	Value determination
Other		0.05	25 °C	Weight of evidence approach

## Conclusion

Does not contain bioaccumulative component(s)

## 12.4 Mobility in soil:

titanium tetraisopropanolate

### (log) Koc

Parameter	Method	Value	Value determination
Koc	SRC PCKOCWIN v2.0	1.53	Read-across

## Conclusion

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

## 12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6 Other adverse effects:

Soudal Surface Activator

### 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)

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

11 / 16

# Soudal Surface Activator

titanium tetraisopropanolate

**Global warming potential (GWP)**

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

propan-2-ol

**Global warming potential (GWP)**

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

**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).

14 06 03\* (waste organic solvents, refrigerants and foam/aerosol propellants: other solvents and solvent mixtures). 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

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Specific treatment. 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 the sewer. Do not discharge into surface water.

#### 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
-----------	------

#### 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	no
--	----

#### 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:

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

12 / 16

# Soudal Surface Activator

Packing group	
Labels	2.1
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
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	no
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
14.4 Packing group:	
Packing group	
Labels	2.1
14.5 Environmental hazards:	
Marine pollutant	-
Environmentally hazardous substance mark	no
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

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

14.1 UN number:	
UN number	1950
14.2 UN proper shipping name:	
Proper shipping name	Aerosols, flammable

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

13 / 16

# Soudal Surface Activator

14.3 Transport hazard class(es):

Class	2.1
-------	-----

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
--	----

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
62%	

VOC content Directive 2004/42/EC

279.7g/l				
----------	--	--	--	--

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

≥30% aliphatic hydrocarbons

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
titanium tetraisopropanolate propan-2-ol	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 effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	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 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.
titanium tetraisopropanolate propan-2-ol	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	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, — "whoopee" cushions, — silly string aerosols, — imitation excrement,

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

14 / 16

# Soudal Surface Activator

	that Regulation or not.	<ul style="list-style-type: none"> <li>— horns for parties,</li> <li>— decorative flakes and foams,</li> <li>— artificial cobwebs,</li> <li>— stink bombs.</li> </ul> <p>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:</p> <p>"For professional users only".</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in Article 8 (1a) of Council Directive 75/ 324/EEC.</p> <p>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.</p>
--	-------------------------	---

## National legislation The Netherlands

### Soudal Surface Activator

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	9

## National legislation Germany

### Soudal Surface Activator

WGK	1; Classification water polluting according to external literature source
-----	---

### titanium tetraisopropanolate

TA-Luft	5.2.5
---------	-------

### propan-2-ol

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	2-Propanol; 200 ppm
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	2-Propanol; 500 mg/m <sup>3</sup>
TA-Luft	5.2.5

## National legislation France

### Soudal Surface Activator

No data available

## National legislation Belgium

### Soudal Surface Activator

No data available

## Other relevant data

### Soudal Surface Activator

No data available

### propan-2-ol

IARC - classification	3; Isopropanol
TLV - Carcinogen	2-propanol; A4

## 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  
R36 Irritating to eyes  
R67 Vapours may cause drowsiness and dizziness

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

H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H229 Pressurised container: May burst if heated.  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

(\* ) = 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

Reason for revision: ATP4

Publication date: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

15 / 16

# Soudal Surface Activator

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: 2012-03-05

Date of revision: 2015-02-01

Revision number: 0100

Product number: 51009

16 / 16