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## SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

## **SURFACE ACTIVATOR**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier SURFACE ACTIVATOR Product name **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 **3** + 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 **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 Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 Class Category Hazard statements Flam. Liq. H225: Highly flammable liquid and vapour. category 2 Eye Irrit. category 2 H319: Causes serious eye irritation. STOT SE category 3 H336: May cause drowsiness or dizziness 2.2. Label elements Contains: propan-2-ol. Signal word Danger H-statements H225 Highly flammable liquid and vapour. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210 P280 Wear protective gloves and eye protection/face protection. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

 P303 + P361 + P353
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)
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134-15960-533-en

P305 + P351 + P338

P501

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container in accordance with local/regional/national/international regulation.

#### 2.3. Other hazards

May build up electrostatic charges: risk of ignition Gas/vapour spreads at floor level: ignition hazard

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

3.2. Mixtures

		CAS No Conc. (C)		Conc. (C)	Classification according to CLP	Note	Remark
REACH Registration No		EC No			j		ito indiric
propan-2-ol 01-2119457558-25		67-63-0 200-661-7			Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
titanium tetraisopropanolate 01-2119967389-17		546-68-9 208-909-6			Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(10)	Constituent

(1) For 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:

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. Never give alcohol to drink.

#### 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. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Apply a moist gauze patch.

#### After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. 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: Irritation of the respiratory tract. Dry/sore throat. Central nervous system depression. Dizziness. Headache. After skin contact:

Not irritating.

After eye contact:

Irritation of the eye tissue.

After ingestion:

AFTER INGESTION OF HIGH QUANTITIES: Central nervous system depression. Disturbed motor response. Headache. Disturbances of consciousness. Dilation of the blood vessels. Low arterial pressure. Vomiting. Nausea. Abdominal pain. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and availabl<mark>e it will be listed below.</mark>

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- 5.1.1 Suitable extinguishing media:
- Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.
- 5.1.2 Unsuitable extinguishing media:

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Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the substance or mixture Upon combustion: CO and CO2 are formed.

#### 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. 5.3.2 Special protective equipment for fire-fighters:
- Gloves. Protective goggles. 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 goggles. Protective clothing.
  - Suitable protective clothing

See heading 8.2

#### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Try to reduce evaporation. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

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

Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. 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

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. 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 in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. May be stored under nitrogen. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

#### 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, (strong) bases, halogens.

7.2.3 Suitable packaging material:

Tin

#### 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.

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>
The Netherlands		
Reason for revision: 2;3	Publication date: 2	011-05-03
	Date of revision: 20	017-01-20
Revision number: 0302	Product number: 3	2156 3/14

2-Propanol			Time-weighted average exp exposure limit value)			260 ppm
			Time-weighted average exp exposure limit value)	oosure limit 8 h (Privat	e occupational	650 mg/m <sup>3</sup>
France						
Alcool isopropylique			Short time value (VL: Valeur			400 ppm
			Short time value (VL: Valeur	r non regiementaire in		980 mg/m <sup>3</sup>
Germany Propan-2-ol			Time-weighted average exp	osuro limit 9 h (TDCS)	200)	200 ppm
Ргоран-2-ог			Time-weighted average exp			500 mg/m <sup>3</sup>
UK			<u> </u>			
Propan-2-ol			Time-weighted average exp	osure limit 8 h (Work	place exposure limit	400 ppm
			(EH40/2005)) Time-weighted average exp	osure limit 8 h (Work	place exposure limit	999 mg/m <sup>3</sup>
			(EH40/2005)) Short time value (Workplace	e exposure limit (EH/(	)/2005))	500 ppm
			Short time value (Workplace			1250 mg/m <sup>3</sup>
USA (TLV-ACGIH)						
2-propanol			Time-weighted average exp	osure limit 8 h (TLV - /	Adopted Value)	200 ppm
			Short time value (TLV - Ado			400 ppm
b) National biological lin						
If limit values are applica	able and availab	le these will be listed be	elow.			
Germany		huse of the second	have sold the state	05	111/0010 01	
Propan-2-ol (Aceton)		Urin: expositionsende	e, bzw. schichtende	25 mg/l	11/2012 Ständige S Prüfung gesundhei Arbeitsstoffe der D	itsschädlicher
Propan-2-ol (Aceton)		Vollblut: expositionse	nde, bzw. schichtende	25 mg/l	11/2012 Ständige S Prüfung gesundhei Arbeitsstoffe der D	itsschädlicher
Vitamin K-Antagonisten	(Quick-Wert)	Vollblut: keine beschr	änkung	Reduktion auf nicht weniger als 70%	11/2012 Ständige S Prüfung gesundhei Arbeitsstoffe der D	Senatskommiss itsschädlicher
USA (BEI-ACGIH)						
2-Propanol (Acetone)		Urine: end of shift at e			T	
		Unite. end of shirt at e	end of workweek	40 mg/L		
.1.2 Sampling methods If applicable and availabl		d below.			<u> </u>	
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1.2 Sampling methods     If applicable and availabl     Isopropanol (Volatile Org     Isopropyl Alcohol (Alcohol     Isopropyl Alcohol     1.3 Applicable limit values     If limit values are applica     1.4 DNEL/PNEC values     DNEL/DMEL - Workers     propan-2-ol     Effect level (DNEL/DM     DNEL     titanium tetraisopropana     Effect level (DNEL/DM     DNEL     DNEL     DNEL/DMEL - General p     propan-2-ol     Effect level (DNEL/DM     DNEL     DNEL     DNEL/DMEL - General p     propan-2-ol     Effect level (DNEL/DM     DNEL     DNEL     DNEL     DNEL/DMEL - General p     Dropan-2-ol     Effect level (DNEL/DM     DNEL     DNEL     DNEL	ganic compound ools I) s when using th able and availab IEL) Ty LC Colate IEL) Ty LC LC Coppulation	d below. ds) e substance or mixture le these will be listed be ng-term systemic effec ng-term systemic effec ng-term systemic effec ng-term systemic effec ng-term systemic effec	NIOSH NIOSH OSHA e as intended elow. ts inhalation ts dermal ts inhalation ts inhalation ts dermal	2549 1400 109 Value 500 mg/m <sup>3</sup> 888 mg/kg bw/day Value 500 mg/m <sup>3</sup> Value 89 mg/m <sup>3</sup> 319 mg/kg bw/day	Remark	
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propan-2-ol				
Compartments		Value		Remark
Fresh water		140.9 mg		
Marine water		140.9 mg	/I	
STP		2251 mg/	/]	
Fresh water sediment		552 mg/k	kg sediment dw	
Marine water sedimen	t	552 mg/k	kg sediment dw	
Soil		28 mg/kg	l soil dw	
Oral		160 mg/k	kg food	
titanium tetraisopropano	olate			
Compartments		Value		Remark
Fresh water		0.59 mg/		
Salt water		0.059 mg	/1	
Aqua (intermittent rele	eases)	5.9 mg/l		
STP		105 mg/l		
Fresh water sediment		0.482 mg	/kg sediment dw	
Marine water sedimen	t	0.0482 m	g/kg sediment dw	
Soil		0.112 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

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

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

Observe normal hygiene standards. 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

- materials (good resistance)

Butyl rubber, nitrile rubber, viton, neoprene, chloroprene rubber, chlorosulfonated polyethylene, tetrafluoroethylene.

- materials (less resistance)
- Chlorinated polyethylen<mark>e</mark>, PVC, neoprene/natural rubber.

- materials (poor resistance)

Natural rubber, polyethy<mark>lene, PVA.</mark>

#### c) Eye protection:

Protective goggles.

- 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	Liquid
Odour	Alcohol odour
Odour threshold	No data available
Colour	Colourless
Particle size	Not applicable (liquid)
Explosion limits	2 - 12 vol %
	50 - 300 g/m <sup>3</sup>
Flammability	Highly flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	> 82 °C
Flash point	12 °C
Evaporation rate	No data available
Relative vapour density	2.1
Vapour pressure	43 hPa ; 20 °C
	295 hPa ; 50 °C
Solubility	water ; soluble
or revision: 2;3	Publication date: 2011-05-03
	Date of revision: 2017-01-20

Product number: 32156

Relative density	0.8	
Decomposition tempera	ture No data ava	lable
Auto-ignition temperatu	re No data ava	lable
Explosive properties		group associated with explosive properties
Oxidising properties	No chemical	group associated with oxidising properties
рН	No data ava	lable
9.2. Other information		
Absolute density	800 kg/m <sup>3</sup>	

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Violent to explosive reaction with (strong) oxidizers. Reacts exothermically with (some) metals. Prolonged storage/in large quantities: may form peroxides.

#### 10.4. Conditions to avoid

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away.

#### 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases, halogens.

#### **10.6. Hazardous decomposition products** Upon combustion: CO and CO2 are formed.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

11.1.1 Test results

#### Acute toxicity

SURFACE ACTIVATOR

No (test)data on the mixture available

#### propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	13120 mg/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000 ppm	6 h	Rat (male/female)	Experimental value	

titanium tetraisopropanolate

	Route of exposure	Para	meter	Method	Value	Exposure time	Species	Value	Remark
								determination	
	Oral	LD5C	)	Equivalent to OECD 401	7500 mg/kg bw		Rat (male)	Weight of evidence	
	Dermal	LD50	)		<mark>12870 m</mark> g/kg bw		Rabbit	Read-across	
	Inhalation (aerosol)	LC50			<mark>7780 mg</mark> /m³ air	4 h	Rat (male)	Weight of evidence	
lu d	acment is based on th	o rol	avant in	aradianta					

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

#### SURFACE ACTIVATOR

No (test)data on the mixture available

propan-2-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Еуе	Irritating	Equivalent to OECD 405		24 hours	Rabbit	Experimental value	Single treatmen
Skin	Not irritating		<mark>4 h</mark>	4; 24; 48; 72 hours	Rabbit	Experimental value	
on for revision: 2;3				Pi	ublication date:	2011-05-03	
				D	ate of revision: 2	2017-01-20	
ion number: 0302				Pi	roduct number:	32156	6/1

No designation the mature available program. 24 Reute of exposure Result Method Exposure time Observation time Species Value determination/Remark Method Result of exposure Result Method Exposure Time Observation time Species Value determination/Remark State Activity of the Species Value determination Remark State Activity of the Species Value Activity of the Valu			J			CIIVAI	Л		
Byte         Outdown of the status         Outdown of t	titanium tetraisopropa	inolate							
Image: Interval in the second of the relevant region of of the relevant rel					osure time		•	determination	
Sin         Not initialing         Equivalent to DCD 44         P4 h	Еуе					24; 48; 72 hours	Rabbit	Experimental value	Single treatmer
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Bit         Moute of exposure         Route of exposure         Value         Value </td <td>Skin M</td> <td>Not sensitizing</td> <td>JOECD 406</td> <td></td> <td></td> <td></td> <td></td> <td>Experimental value</td> <td></td>	Skin M	Not sensitizing	JOECD 406					Experimental value	
Sin         Not sensitiving         Decide de	titanium tetraisopropa	nolate					(male/remale)		
Judgement is based on the relevant ingredients       Conclusion         Not classified as sensitizing for skin         Not classified as sensitizing for skin         Not classified as sensitizing for inhalation         selfic target organ toxicity         URACE_CTUATOR         No (tassified as sensitizing for inhalation         corpanized         Corpani         Corpanized </td <td>•</td> <td></td> <td></td> <td>Ехро</td> <td>sure time</td> <td></td> <td>•</td> <td></td> <td>Remark</td>	•			Ехро	sure time		•		Remark
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Inhalation (vapours)       NOAEC       DECD 451       5000 ppm       No effect       104 weeks (6h/day, SRat (male/female)       Experimental walue         Itanium tetraisopropanolate       Route of exposure       Parameter       Method       Value       Organ       Effect       Exposure time       Species       Value determination         Oral       NOAEL       2200 mg/kg bw/day       No effect       2 weeks (5 days/week)       Rat (male)       inconclusive, insufficient di days/week)       Rat (male/female)       Read across         Inhalation       Dose level       EPA TSCA consent order       5000 ppm       Central nervous Central nervous Central nervous 6 days/week)       Rat (male/female)       Read across         Inhalation       NOAEC       Equivalent to 0CED 413       5000 ppm       Central nervous Central nervous Central nervous 6 days/week)       No effect       13 weeks (6h/day, 5 male/female)       Read-across         Classification is based on the relevant ingredients       6000 ppm       No effect       13 weeks (6h/day, 5 male/female)       Nouse       Read-across         Value detormination       No ECD 413       5000 ppm       No effect       13 weeks (6h/day, 5 male/female)       Nouse       Read-across         Classification is based on the relevant ingredients       Experimental value       No effect       Value determination <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td></td<>									3
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Route of exposure         Parameter         Method         Value         Organ         Effect         Exposure time         Species         Value determination           Oral         NOAEL         2200 mg/kg bw/day         No effect         2 weeks (5         Rat (male)         Inconclusive, insufficient di gays/week)         Inconclusive, insufficient di gays/week)         Rat (male)         Inconclusive, insufficient di gays/week)         Rat (male)         Read-across           Inhalation         NOAEC         Equivalent to OECD 413         5000 ppm         No effect         13 weeks (6h/day, 5         Rat (male/female)         Read-across (male/female)         Read-across (male/femal		NOALC	0100 451	5000 ppm		NO enect			
Oral     NOAEL     2200 mg/kg     No effect     2 weeks (5/2000 kg/kg)     Rat (male)     Inconclusive, insofticient days/week       Inhalation     Dose level     EPA TSCA     5000 ppm     Central nervous Central nervous S (n     Rat (male)     Rat (male)     Read-across       Inhalation     NOAEC     Equivalent to 5000 ppm     Central nervous Central nervous S (n/day, 5     Rat (male)     Read-across       Inhalation     NOAEC     Equivalent to 5000 ppm     No effect     13 weeks (6h/day, 5     Rat     Read-across       (vapours)     OECD 413     5000 ppm     No effect     13 weeks (6h/day, 5     Rat     Read-across       (rapours)     OECD 413     5000 ppm     No effect     13 weeks (6h/day, 5     Mouse     Read-across       (rapours)     OECD 413     5000 ppm     No effect     13 weeks (6h/day, 5     Mouse     Read-across       (rapours)     OECD 413     5000 ppm     No effect     13 weeks (6h/day, 5     Mouse     Read-across       (classification is based on the relevant ingredients     Conclusion     No effect     13 weeks (6h/day, 5     Mouse     Read-across       May cause drowsiness or dizziness.     Effect     Value determination     Read-across     Read-across       Propan-2-01     Equivalent to OECD 471     Bacteria (S.typhimurium)     No				h/-1				C	
Oral         NOAEL         2200 mg/kg bw/day         No effect         2 weeks (5 days/week)         Rat (male)         Inconclusive, insufficient da male/female)           Inhalation         Dose level         EPA TSCA consent order         5000 ppm         Central nervous Central nervous Central nervous System depression         No effect         13 weeks (6h/day, 5 days/week)         Rat (male/female)           Inhalation         NOAEC         Equivalent to OECD 413         5000 ppm         No effect         13 weeks (6h/day, 5 days/week)         Rat (male/female)         Read-across (male/female)           Classification is based on the relevant ingredients         Conclusion         No effect         13 weeks (6h/day, 5 days/week)         Mouse (male/female)         Read-across (male/female)           URFACE ACTIVATOR No (test)data on the mixture available         Effect         Value determination           propan - 2 ol         Equivalent to OECD 471 Bacteria (S.typhimurium)         No effect         Effect         Value determination           Negative with metabolic activation, negative with metabolic activation, negative with metabolic         Equivalent to OECD 476 chinese hamster ovary (CHO)         No effect         Experimental value           ason for revision: 2;3         Publication date: 2011-05-03 Date of revision: 2017-01-20         Experimental value	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	
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(vapours)       consent order       system       system       depression       (male/female)         Inhalation       NOAEC       Equivalent to       5000 ppm       No effect       13 weeks (6h/day, 5       Rat (male/female)       Read-across (male/female)         Inhalation       NOAEC       Equivalent to       5000 ppm       No effect       13 weeks (6h/day, 5       Mouse (male/female)       Read-across         Classification is based on the relevant ingredients       Conclusion       Mouse       Mouse (male/female)       Read-across         URFACE ACTIVATOR No (test)data on the mixture available       Test substrate       Effect       Value determination         No (test)data on the mixture available       Equivalent to OECD 471       Bacteria (S.typhimurium)       No effect       Experimental value         activation, negative with metabolic activation, negative with metabolic activation       Equivalent to OECD 476       Chinese hamster ovary (CHO)       No effect       Experimental value         ason for revision: 2:3       Publication date: 2011-05-03 Date of revision: 2017-01-20       Experimental value	Inhalation	Dose level	FPA TSCA		Central n	ervousCentral nervo	· · ·	Rat	
vapours)       OECD 413       Interview       (male/female)       (male/female)         Inhalation       NOAEC       Equivalent to       5000 ppm       No effect       13 weeks (6h/day, 5       Mouse       Read-across         Classification is based on the relevant ingredients       OECD 413       Interview       Interview       Interview       Read-across         Classification is based on the relevant ingredients       OECD 413       Interview       Interview       Interview       Interview       Interview       Interview       Read-across         Classification is based on the relevant ingredients       Conclusion       Interview		Dose level		5000 ppm		system			iteau-aci 033
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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       Equivalent to OECD 476       Chinese hamster ovary (CHO)       No effect       Experimental value         activation, negative without metabolic activation       Equivalent to OECD 476       Chinese hamster ovary (CHO)       No effect       Experimental value         activation       Publication date: 2011-05-03       Date of revision: 2017-01-20		ivture availab	lo						
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propan-2-ol						<b>F</b> .		6		
<b>Result</b> Negative		-	Method Equivalent to OEC		ure time		ubstrate e (male/female)	Organ		Alue determinat
titanium tetrais	opropanolate	4	174	_			(			
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nogenicity										
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Route of exposure	Parameter	Method	Value		Exposure time	Spec		fect	Organ	Value determinatio
Inhalation (vapours)	NOEL	OECD 451	5000 ppr		104 weeks (6h/day 5 days/week)			o carcinogenic fect		Experimenta value
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exposure Inhalation (vapours) Inhalation (vapours) Judgement is ba onclusion Not classified fc oductive toxicity RFACE ACTIVAT(C No (test)data or propan-2-ol Development Maternal to Effects on fe titanium tetrais	NOEL ased on the re or carcinogeni y <u>DR</u> n the mixture ntal toxicity xicity ertility opropanolate ntal toxicity	OECD 451 Equivalen OECD 451 levant ingred city available Parameter NOAEL NOAEL Parameter	t to > 5000 pp ients Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to OECD 415 Method EPA OTS	k         k           pm         F           pm         F           k         K	days/week) 104 weeks (6h/day 5 days/week) 5 days/week) 6 days/week 7 days/week 7 days 7 kg 10 day(s) 7 kg 10 day(s) 7 kg 10 days 7 kg 10 days 7 kg 10 days 9 (gestatior 13 days 9 (gestatior 13 days 9 (gestatior	(mal) , Rat (mal) time S - 70 R (time S , R , R , R , R , R , R , R , R	e/female) No e/female) No e/female) No e/female) No effemale) No effemale) Rat (female) Rat (female) No effection No effection No Rat (female)	Effect No effect No effect No effect Effect Effect	Foetus	Value determination Experimenta value Experimenta value Experimenta value Value Value
exposure Inhalation (vapours) Inhalation (vapours) Judgement is ba onclusion Not classified fc oductive toxicity RFACE ACTIVAT(C No (test)data or propan-2-ol Development Maternal to Effects on fe titanium tetrais	NOEL ased on the re or carcinogeni y <u>DR</u> n the mixture ntal toxicity xicity ertility opropanolate ntal toxicity	OECD 451 Equivalen OECD 451 levant ingred city available Parameter NOAEL NOAEL NOAEL	t to > 5000 pp ients Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to OECD 415 Method EPA OTS 798.4900 EPA OTS	Value Value Volue	days/week) 104 weeks (6h/day 5 days/week) 5 days/week) 6 days/week 7 days/week 7 days 7 day(s) 7 day(s	time S - 70 R 1, Rat (male R R R R R R R R R R R R R R R R R R R	e/female) NC e/female) NC e/female) NC e/female) NC expecies Rat (female) Rat male/female) Rat male/female) Rat male/female)	effect Effect No effect No effect Effect No effect	Foetus	Value         determination         Experimenta         value         Experimenta         value         Experimenta         value         Kalue         Value         Read-across
exposure Inhalation (vapours) Inhalation (vapours) Judgement is ba onclusion Not classified fc oductive toxicity RFACE ACTIVATO No (test)data or propan-2-ol Development Maternal to Effects on fe titanium tetrais	NOEL ased on the re or carcinogeni y DR n the mixture ntal toxicity xicity ertility opropanolate ntal toxicity	OECD 451 Equivalen OECD 451 levant ingred city available Parameter NOAEL NOAEL NOAEL	t to > 5000 pp ients Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to OECD 415 Method EPA OTS 798.4900 EPA OTS	Value Value Volue	days/week) 104 weeks (6h/day 5 days/week) 5 days/week) 5 days/week) 6 days/week) 6 days/week) 7 kg 10 day(s) 7 kg 10 day(s) 7 kg 10 days (gestatior daily) 7 kg 13 days (gestatior daily) 7 kg 13 days (gestatior daily)	time S - 70 R - 70 R - , R -	e/female) No e/female) No e/female) No pecies Rat Rat (female) Rat male/female) Rat male/female) Rat (female) Rat (female) Rat (female)	effect Effect No effect No effect Effect No effect No effect No effect No effect	Foetus	Read-across         Value         determination         Experimenta         value         Experimenta         value         Experimenta         value         Read-across         Read-across         Read-across
exposure Inhalation (vapours) Inhalation (vapours) Judgement is ba onclusion Not classified fc oductive toxicity RFACE ACTIVATO No (test)data or propan-2-ol Development Maternal to Effects on fe titanium tetrais	NOEL ased on the re or carcinogeni y DR n the mixture ntal toxicity xicity ertility opropanolate ntal toxicity	OECD 451 Equivalen OECD 451 Ievant ingred City available Parameter NOAEL NOAEL NOAEL NOAEL NOAEL	t to > 5000 pr ients Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to OECD 415 Method EPA OTS 798.4900 EPA OTS 798.4900	Value           400 mg, bw/day	days/week) 104 weeks (6h/day 5 days/week) 5 days/week) 5 days/week) 6 days/week) 6 days/week) 7 kg 10 day(s) 7 kg 10 day(s) 7 kg 10 days (gestation daily) 7 kg 10 days (gestation daily)	time S - 70 R - 70 R - , R -	e/female) NC e/female) NC e/female) NC e/female) NC e/female) NC e/female) Rat male/female) NC Rat male/female) NC Rat male/female) NC Rat male/female) NC Rat male/female) NC	Effect No effect No effect No effect Effect No effect	Foetus	Read-across         Value         determination         Experimenta         value         Experimenta         value         Experimenta         value         Value         determination         value         Value         determination         Read-across         Read-across         Read-across

Not classified for reprotoxic or developmental toxicity

#### Toxicity other effects

SURFACE ACTIVATOR No (test)data on the mixture available

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

SURFACE ACTIVATOR

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Skin rash/inflammation. Impaired memory. Cracking of the skin.

## SECTION 12: Ecological information

#### 12.1. Toxicity

#### SURFACE ACTIVATOR

No (test)data on the mixture available

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	<mark>1000</mark> 0 mg/l	96 h	Pimephales promelas	Flow-through system		Experimental value; Lethal
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system		Experimental value; Locomotor effect
Toxicity algae and other aqu <mark>atic</mark> plants	Toxicity threshold		1800 mg/l	7 day(s)	Scenedesmus quadricauda	Static system	Fresh water	Experimental value; Toxicity test
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC		2344 µmol/l	16 day(s)	Daphnia magna		Fresh water	Experimental value; Growth
Toxicity aquatic micro- organisms	Toxicity threshold	Equivalent to DIN 38412/8	1050 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Toxicity test
	EC50	ISO 8192	41676 mg/l	30 minutes	Bacteria			Experimental value; Activated sludge
anium tetraisopropanolate								
	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50		4200 mg/l	96 h	Rasbora heteromorpha	Static system	Fresh water	Read-across
Acute toxicity crustacea	EC50	OECD 202	590 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 202	440 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	> 820 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
	EC50	OECD 201	400 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
	NOEC	OECD 201	201 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
	LOEC	OECD 201	97 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
Toxicity aquatic micro-	Toxicity threshold	DIN 38412-8	1050 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Read-across

Judgement of the mixture is based on the relevant ingredients

#### **Conclusion**

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

#### 12.2. Persistence and degradability

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	95 %	21 day(s)	Experimental value
Biodegradation soil			
Method	Value	Duration	Value determination
			Data waiving
Half-life water (t1/2 water)			
Method	Value	Primary degradation/mineralisation	Value determination
			Data waiving
n for revision: 2;3		Publication date: 2	2011-05-03
		Date of revision: 2	017-01-20

titanium tetraisopropanolat	e					
	<u> </u>					
Biodegradation water		<b>b</b>				
Method		Value		Duration		Value determination
OECD 301C: Modified M Phototransformation air (		84 % - 89 %		28 day(s		Experimental value
Method		Value		Conc. Of	I-radicals	Value determination
Method		value	_		Fidulcais	Calculated value
Half-life water (t1/2 water	r)					
Method	.,	Value		Primary		Value determination
				degrada	tion/mineralisation	
OECD 111: Hydrolysis as	a function of pH	< 3 minutes	; GLP			Experimental value
<u>Conclusion</u> Contains readily biodegrada <b>12.3. Bioaccumulative p</b> SURFACE ACTIVATOR						
Log Kow						
Method	Remark		Value	Ι	emperature	Value determination
	Not applicable (n	nixture)				
propan-2-ol						
Log Kow						
Method	Remark		Val		Temperature	Value determination
Other			0.0	5	25 °C	Weight of evidence approac
titanium tetraisopropanolat	e					
Log Kow						
Method	Remark		Val		Temperature	Value determination
			1.0	3		Calculated
(log) Koc Parameter	0			Method	Value	Value determination Data waiving
titanium tetraisopropanolate	<u>e</u>					
(log) Koc						
				Mathad	Value	Value determination
Parameter				Method	Value	Value determination
Koc				Method SRC PCKOCWIN v2.0	Value 1.53	Value determination Read-across
		-				
Koc Conclusion Contains component(s) with	d vPvB assessm tt(s) that meet(s) the ects s (Regulation (EU) I nts is included in the iDP)	ent e criteria of P <b>No 517/2014</b> e list of fluorin	BT and/ ) nated gr	SRC PCKOCWIN v2.0 or vPvB as listed in Anney eenhouse gases (Regulat	1.53 XIII of Regulation (EC) N	Read-across
Koc Conclusion Contains component(s) with <b>12.5. Results of PBT and</b> Does not contain componen <b>12.6. Other adverse eff</b> SURFACE ACTIVATOR Fluorinated greenhouse gase None of the known componen Ozone-depleting potential (O Not classified as dangerous fo <u>propan-2-ol</u> Ground water	d vPvB assessm tt(s) that meet(s) the ects s (Regulation (EU) I nts is included in the iDP)	ent e criteria of P <b>No 517/2014</b> e list of fluorin	BT and/ ) nated gr	SRC PCKOCWIN v2.0 or vPvB as listed in Anney eenhouse gases (Regulat	1.53 XIII of Regulation (EC) N	Read-across
Koc Conclusion Contains component(s) with 12.5. Results of PBT and Does not contain component 12.6. Other adverse effi SURFACE ACTIVATOR Fluorinated greenhouse gase None of the known component Ozone-depleting potential (O Not classified as dangerous fo propan-2-ol	d vPvB assessm tt(s) that meet(s) the ects s (Regulation (EU) I nts is included in the iDP)	ent e criteria of P <b>No 517/2014</b> e list of fluorin	BT and/ ) nated gr	SRC PCKOCWIN v2.0 or vPvB as listed in Anney eenhouse gases (Regulat	1.53 XIII of Regulation (EC) N	Read-across
Koc Conclusion Contains component(s) with 12.5. Results of PBT and Does not contain componen 12.6. Other adverse effe SURFACE ACTIVATOR Fluorinated greenhouse gase None of the known componen Ozone-depleting potential (O Not classified as dangerous fo <u>propan-2-ol</u> Ground water Ground water pollutant	d vPvB assessm at(s) that meet(s) the ects s (Regulation (EU) M nts is included in the iDP) ar the ozone layer (R	ent e criteria of P <b>lo 517/2014</b> e list of fluorin egulation (EC	BT and/ ) nated gr	SRC PCKOCWIN v2.0 or vPvB as listed in Anney eenhouse gases (Regulat	1.53 XIII of Regulation (EC) N	Read-across
Koc Conclusion Contains component(s) with 12.5. Results of PBT and Does not contain component 12.6. Other adverse effi SURFACE ACTIVATOR Fluorinated greenhouse gase None of the known componential (O Not classified as dangerous fo <u>propan-2-ol</u> Ground water Ground water pollutant ECTION 13: Dispose	d vPvB assessm at(s) that meet(s) the ects s (Regulation (EU) f nts is included in the DP) or the ozone layer (R al considera n is a general descri	ent e criteria of P No 517/2014, e list of fluorii egulation (EC	BT and/ ) nated gr 2) No 10	SRC PCKOCWIN v2.0 or vPvB as listed in Annex eenhouse gases (Regulat 05/2009)	1.53 XIII of Regulation (EC) N on (EU) No 517/2014)	Read-across
Koc Conclusion Contains component(s) with 12.5. Results of PBT and Does not contain component 12.6. Other adverse effi SURFACE ACTIVATOR Fluorinated greenhouse gase None of the known componential (O Not classified as dangerous for <u>propan-2-ol</u> Ground water Ground water pollutant ECTION 13: Dispose The information in this section	d vPvB assessm at(s) that meet(s) the ects s (Regulation (EU) M at is included in the ind p) or the ozone layer (R al consider n is a general description your identified use. methods	ent e criteria of P No 517/2014, e list of fluorii egulation (EC	BT and/ ) nated gr 2) No 10	SRC PCKOCWIN v2.0 or vPvB as listed in Annex eenhouse gases (Regulat 05/2009)	1.53 XIII of Regulation (EC) N on (EU) No 517/2014)	Read-across
Koc Conclusion Contains component(s) with 12.5. Results of PBT and Does not contain componen 12.6. Other adverse eff SURFACE ACTIVATOR Fluorinated greenhouse gase None of the known componen Ozone-depleting potential (O Not classified as dangerous fo <u>propan-2-ol</u> Ground water Ground water pollutant ECTION 13: Dispos The information in this section scenarios that correspond to y 13.1. Waste treatment 13.1.1 Provisions relating	d vPvB assessm at(s) that meet(s) the ects s (Regulation (EU) M at is included in the ind p) or the ozone layer (R al consider n is a general description your identified use. methods	ent e criteria of P No 517/2014, e list of fluorii egulation (EC	BT and/ ) nated gr 2) No 10	SRC PCKOCWIN v2.0 or vPvB as listed in Annex eenhouse gases (Regulat 05/2009)	1.53 XIII of Regulation (EC) N on (EU) No 517/2014)	Read-across

S

Hazardous waste according to Directive 2008/98/EC.

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

20 01 29\* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Recycle/reuse. 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 surface water.

#### 13.1.3 Packaging/Container

**European Union** 

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		1219
14.2. UN proper shipping n	ame	
Proper shipping name		Isopropanol (isopropyl alcohol), mixture
14.3. Transport hazard class	s(es)	
Hazard identification nu		33
Class		3
Classification code		F1
14.4. Packing group		
Packing group		
Labels		3
14.5. Environmental hazard	ls	
Environmentally hazard	ous substance mark	no
14.6. Special precautions for		
Special provisions		601
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		1219
14.2. UN proper shipping n	ame	hermoned (incomend clocks)) with me
Proper shipping name		Isopropanol (isopropyl alcohol), mixture
14.3. Transport hazard class		
Hazard identification nu	Imper	33
Class		3
Classification code		F1
14.4. Packing group		
Packing group		
Labels		3
14.5. Environmental hazard		
Environmentally hazard		no
14.6. Special precautions for	or user	
Special provisions		601
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		1219
14.2. UN proper shipping n	ame	1217
Proper shipping name		Isopropanol (isopropyl alcohol), mixture
14.3. Transport hazard class	(20)	
Class	5(03)	3
Classification code		F1
14.4. Packing group		
Packing group		
Labels		3
14.5. Environmental hazard	le	
Environmentally hazard		no
14.6. Special precautions for		pio
Special provisions		601
opecial provisions		
Descen for revision: 2:2		Dublication date: 2011 05 02
Reason for revision: 2;3		Publication date: 2011-05-03
		Date of revision: 2017-01-20
Revision number: 0302		Product number: 32156 11 / 14

Ī	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 (If	MDG/IMSBC)			
	1. UN number			
l	UN number			1219
	2. UN proper shipping na	me		
	Proper shipping name			Isopropanol (isopropyl alcohol), mixture
	<ol> <li>Transport hazard class</li> </ol>	(es)		
	Class			3
	4. Packing group			
	Packing group		_	
	Labels		_	3
-	5. Environmental hazards	5		
	Marine pollutant Environmentally hazardo	aus substanco mark	-	- no
	6. Special precautions for			no
	Special provisions	usei	-	
	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	7. Transport in bulk accor	rding to Annex II of Marpol and the IB	C Code	
	Annex II of MARPOL 73/		00000	Not applicable, based on available data
-	CAO-TI/IATA-DGR)			
	1. UN number			
	UN number		-	1219
	2. UN proper shipping na	me		
	Proper shipping name			Isopropanol, mixture
	3. Transport hazard class	(es)		
(	Class			3
14.4	4. Packing group			
F	Packing group			I
	Labels			3
	5. Environmental hazards			
	Environmentally hazardo	ous substance mark		no
116				
	6. Special precautions for			
	Special provisions	user		A180
	Special provisions			
	Special provisions limited quantities: maxir N 15: Regulat	user num net quantity per packaging ory information		A180 1 L
	Special provisions limited quantities: maxir N 15: Regulat	user num net quantity per packaging ory information	gislation	
CTIOI 15.1. S	Special provisions limited quantities: maxir N 15: Regulato Safety, health and o	user num net quantity per packaging ory information	gislation	A180 1 L
CTIOI 15.1. S <u>Euro</u>	Special provisions limited quantities: maxir N 15: Regulat Safety, health and o opean legislation:	user num net quantity per packaging Ory information environmental regulations/le	gislation	A180 1 L
CTIOI 15.1. S <u>Euro</u>	Special provisions limited quantities: maxir N 15: Regulato Safety, health and o	user num net quantity per packaging Ory information environmental regulations/le	gislation	A180 1 L
CTIOI 15.1. S <u>Euro</u>	Special provisions limited quantities: maxir N 15: Regulat Safety, health and o opean legislation: DC content Directive 201 VOC content	user num net quantity per packaging Ory information environmental regulations/le	gislation	A180 1 L
CTIOI 15.1. S <u>Euro</u>	Special provisions limited quantities: maxir N 15: Regulat Safety, health and o opean legislation: DC content Directive 201	user num net quantity per packaging Ory information environmental regulations/le	gislation	A180 1L specific for the substance or mixture
CTIOI 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulat Safety, health and opean legislation: DC content Directive 201 VOC content 100 %	user num net quantity per packaging Ory information environmental regulations/le		A180 1L specific for the substance or mixture
CTIOI 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulat Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to	user num net quantity per packaging Ory information environmental regulations/le		A180 1L specific for the substance or mixture
CTIO 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulate Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to desinfectants	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and am		A180 1L specific for the substance or mixture
CTIO 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulat Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and am		A180 1L specific for the substance or mixture
CTIO 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulate Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV	nendments	A180 1L specific for the substance or mixture
CTIO 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulate Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ngerous substances, mixtures and ar	nendments /II of Regula ticles.	A180 1 L specific for the substance or mixture Remark tion (EC) No 1907/2006: restrictions on the manufacture, placing on the ma
CTIO 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulate Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ingerous substances, mixtures and ar Designation of the substance, of	nendments /II of Regula ticles.	A180 1 L specific for the substance or mixture
ETIO 15.1. S <u>Euro</u> VC	Special provisions limited quantities: maxir N 15: Regulate Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and am riction (s) subject to restrictions of Annex XV ngerous substances, mixtures and ar Designation of the substance, of substances or of the mixture	nendments /II of Regula ticles. the group of	A180 1 L specific for the substance or mixture  Remark tion (EC) No 1907/2006: restrictions on the manufacture, placing on the ma Conditions of restriction
CTIO 15.1. S Euro VC	Special provisions limited quantities: maxin N 15: Regulate Safety, health and o opean legislation: OC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and am riction (s) subject to restrictions of Annex XV ingerous substances, mixtures and ar Designation of the substance, of substances or of the mixture Liquid substances or mixtures wh	rendments /II of Regula ticles. the group of ich are	A180 1 L specific for the substance or mixture Remark tion (EC) No 1907/2006: restrictions on the manufacture, placing on the ma
CTIO 15.1. S Euro VC	Special provisions limited quantities: maxir N 15: Regulate Safety, health and o opean legislation: DC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ingerous substances, mixtures and ar Designation of the substance, of substances or mixtures Liquid substances or mixtures Liquid substances or mixtures Directive 1999/45/EC or are fulfil	nendments /II of Regula ticles. the group of ich are ance with ling the	A180         1 L         specific for the substance or mixture         Remark         tion (EC) No 1907/2006: restrictions on the manufacture, placing on the ma         Conditions of restriction         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,
CTIO 15.1. S Euro VC	Special provisions limited quantities: maxin N 15: Regulate Safety, health and o opean legislation: OC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ingerous substances, mixtures and ar Designation of the substance, of substances or mixtures wh regarded as dangerous in accorda Directive 1999/45/EC or are fulfil criteria for any of the following he	I of Regula ticles. the group of ich are ance with ling the azard classes	A180         1L         specific for the substance or mixture         Remark         tion (EC) No 1907/2006: restrictions on the manufacture, placing on the ma         Conditions of restriction         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,
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CTIO 15.1. S Euro VC	Special provisions limited quantities: maxin N 15: Regulate Safety, health and o opean legislation: OC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ingerous substances, mixtures and ar Designation of the substance, of substances or of the mixture Liquid substances or mixtures wh regarded as dangerous in accord Directive 1999/45/EC or are fulfil criteria for any of the following h or categories set out in Annex I to (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 a types A and B, 2.9, 2.10, 2.12, 2.1 and 2, 2.14 categories 1 and 2, 2. F; (b) hazard classes 3.1 to 3.6, 3.7 a effects on sexual function and fer development, 3.8 effects other th	Antipage of the second	A180         1L         specific for the substance or mixture         Remark         Ition (EC) No 1907/2006: restrictions on the manufacture, placing on the manufacture, placing on the manufacture, placing on the manufacture, placing on the manufacture, place on the market.         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, ever ontamental aspects, 2. Articles not complying with paragraph 1 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 far for supply to the general public shall not be placed on the market unless they conform the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of committee for Standardisation (CEN).5. Without prejudice to the implementation of committee for Standardisation (CEN).5. Without prejudice to the implementation of committee for Standardisation (CEN).5. Without prejudice to the implementation of commitme for Standardisa
CTIO 15.1. S Euro VC	Special provisions limited quantities: maxin N 15: Regulate Safety, health and o opean legislation: OC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ngerous substances, mixtures and ar Designation of the substance, of substances or of the mixture Liquid substances or mixtures wh regarded as dangerous in accorda Directive 1999/45/EC or are fulfill criteria for any of the following h or categories set out in Annex I to (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 a types A and B. 2.9, 2.10, 2.12, 2.1 and 2, 2.14 categories 1 and 2, 2. F; (b) hazard classes 3.1 to 3.6, 3.7 a effects on sexual function and fer development, 3.8 effects other th effects, 3.9 and 3.10;	Antipage of the second	A180         1 L         specific for the substance or mixture         Remark         Image: Conditions of restriction         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, eve ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on 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 lar for supply to the general public shall not be placed on the market unless they conform the European Standard on Decorative oil lamps (En 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of community provisions relating to the classification, packaging and labelling of danger
CTIO 15.1. S Euro VC	Special provisions limited quantities: maxin N 15: Regulate Safety, health and o opean legislation: OC content Directive 201 VOC content 100 % Ingredients according to desinfectants REACH Annex XVII - Rest Contains component and use of certain da	num net quantity per packaging Ory information environmental regulations/le 0/75/EU Regulation (EC) No 648/2004 and an riction (s) subject to restrictions of Annex XV ingerous substances, mixtures and ar Designation of the substance, of substances or of the mixture Liquid substances or mixtures wh regarded as dangerous in accord Directive 1999/45/EC or are fulfil criteria for any of the following h or categories set out in Annex I to (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 a types A and B, 2.9, 2.10, 2.12, 2.1 and 2, 2.14 categories 1 and 2, 2. F; (b) hazard classes 3.1 to 3.6, 3.7 a effects on sexual function and fer development, 3.8 effects other th	Antipage of the second	A180         1L         specific for the substance or mixture         Remark         Ition (EC) No 1907/2006: restrictions on the manufacture, placing on the manufacture, placing on the manufacture, placing on the manufacture, placing on the manufacture, place on the market.         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, ever ontamental aspects, 2. Articles not complying with paragraph 1 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 far for supply to the general public shall not be placed on the market unless they conform the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of committee for Standardisation (CEN).5. Without prejudice to the implementation of committee for Standardisation (CEN).5. Without prejudice to the implementation of committee for Standardisation (CEN).5. Without prejudice to the implementation of commitme for Standardisa

Reason for revision: 2;3

Revision number: 0302

Publication date: 2011-05-03 Date of revision: 2017-01-20

Product number: 32156

		<ul> <li>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";</li> <li>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";</li> <li>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. 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. The general public. The general public, are the first time lamp oils and grill lighter fluids, labelled with R65 or H304, intended for supply to the general public. The general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 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. The general public. The data drill generative to a start 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.'</li> </ul>
- propan-2-ol - titanium tetraisopropanolate	Substances classified as flammable category 1 or 2, flammable liquids c 1, 2 or 3, flammable solids category substances and mixtures which, in c with water, emit flammable gases, 2 or 3, pyrophoric liquids category 1 pyrophoric solids category 1, regarc whether they appear in Part 3 of Ar that Regulation or not.	ategories       dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:         1 or 2, purposes such as the following:       — metallic glitter intended mainly for decoration,         - metallic glitter intended mainly for decoration,       — artificial snow and frost,         or       - whoopee" cushions,         lless of       — silly string aerosols,
National legislation Belgiun		
SURFACE ACTIVATOR No data available	-	
National legislation The Net	therlands	
SURFACE ACTIVATOR	<u>inonanas</u>	
Waste identification (t Netherlands)	he LWCA (the Netherlands): KGA o	sategory 03
,		
<u>National legislation France</u> <u>SURFACE ACTIVATOR</u> No data available		
National legislation German	<u>1y</u>	
SURFACE ACTIVATOR		
WGK	1; Classification water polluting Stoffe (VwVwS) of 27 July 2005	based on the components in compliance with Verwaltungsvorschrift wassergefährdender (Anhang 4)
propan-2-ol		
TA-Luft	5.2.5	
TRGS900 - Risiko der	Propan-2-ol; Y; Risiko der Fruch Grenzwertes nicht befürchtet z	tschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung titanium tetraisopropan		
TA-Luft	5.2.5	
National legislation United		
SURFACE ACTIVATOR No data available	<u>Kingaom</u>	
Other relevant data		
SURFACE ACTIVATOR		
No data available		
propan-2-ol	0. 1000	
IARC - classification TLV - Carcinogen	3; Isopropanol 2-propanol; A4	
15.2. Chemical safety ass No chemical safety asses	sessment sment has been conducted.	
Reason for revision: 2;3		Publication date: 2011-05-03 Date of revision: 2017-01-20
D / /		
Revision number: 0302		Product number: 32156 13 / 14

SURFACE ACTIVATOR				
SECTION 14. Other in	formation			
SECTION 16: Other in	IT OF IT A LIOT I ts referred to under headings 2 and 3:			
H225 Highly flammable H226 Flammable liquid H319 Causes serious ey H336 May cause drows	liquid and vapour. and vapour. e irritation.			
CLP (EU-GHS) C DMEL E DNEL E EC50 E ErC50 E	VTERNAL CLASSIFICATION BY BIG lassification, labelling and packaging (Globally Harmonised System in Europe) erived Minimal Effect Level erived No Effect Level ffect Concentration 50 % C50 in terms of reduction of growth rate			
LD50 L NOAEL N NOEC N	ethal Concentration 50 % ethal Dose 50 % Io Observed Adverse Effect Level Io Observed Effect Concentration Organisation for Economic Co-operation and Development			
PNEC F STP S	ersistent, Bioaccumulative & Toxic redicted No Effect Concentration ludge Treatment Process ery Persistent & very Bioaccumulative			
state of knowledge at th of the substances/prepa may be used. Old version substances/preparations substances/preparations take all measures dictate circumstances. BIG does parties. This safety data in other countries, wher local legislation. Use of t failing the general condi	afety 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 at time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal rations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions is must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to s/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the s/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to ad by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted e local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such his safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is tions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Igreement/conditions for details.			
Reason for revision: 2;3	Publication date: 2011-05-03 Date of revision: 2017-01-20			